

Quinette Paster
#12 Lehman

BARNARD





BARNARD

The Undergraduate College of Liberal Arts for Women of Columbia University

1981-1982 CATALOGUE



Barnard College
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New York, N.Y. 10027

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BARNARD COLLEGE
ARCHIVES

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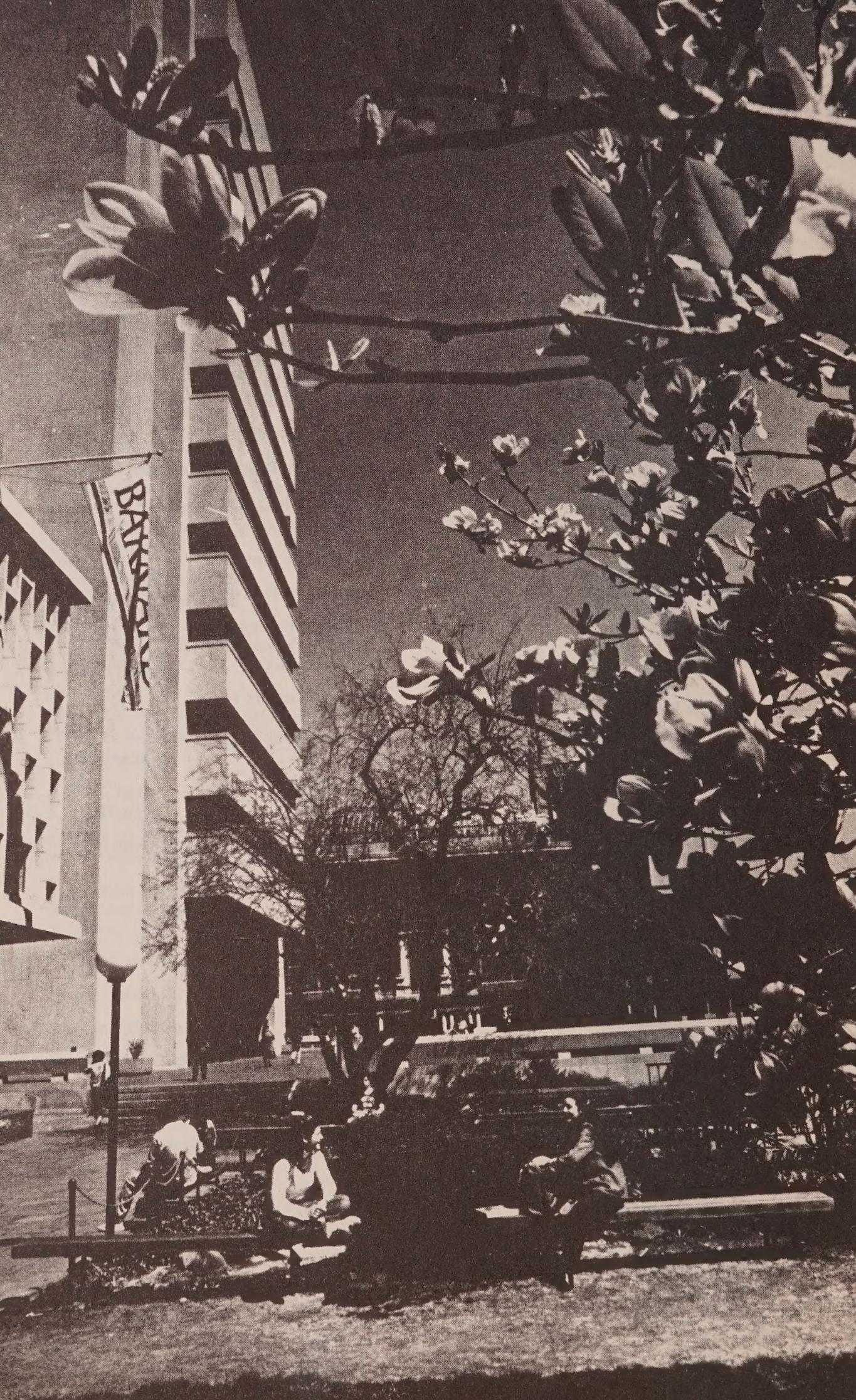
College Calendar 1981-1982

AUTUMN TERM—

NINETY-THIRD YEAR

Registration	Sept. 4,8,9 (F,Tu,W)	Last day to file tentative Spring Term programs	Nov. 24 (Tu)
Language Placement Examinations	Sept. 8 (Tu)	Last day for graduating seniors to submit work not completed in previous two terms	Nov. 25 (W)
Classes begin 9:00 a.m.	Sept. 8 (Tu)	Thanksgiving Holidays	Nov. 26-29 (Th-Sun)
Deferred examinations for students absent from May 1981 final examinations in Barnard courses. Deferred examinations for C,F,G,W, and other Columbia courses must be taken before the end of the semester.	Sept. 8,9,10 (Tu,W,Th)	Last day to file requests for pass-fail grades	Dec. 9 (W)
Last day for October 1981 graduates to submit work not completed in previous terms	Sept. 11 (F)	Optional reading period	Dec. 9-14 (W-M)
Program Filing Last day to file Autumn Term programs 5:00 p.m.	Sept. 18 (F)	Required reading day	Dec. 15 (Tu)
Last day to add a course	Sept. 18 (F)	Last day for payment of bill for Spring Term	Dec. 15 (Tu)
Last day to file Spring Term Senior Scholar applications	Oct. 16 (F)	Last day for refund of Spring Term Deposit	Dec. 15 (Tu)
Last day to file diploma name cards for the degree in January 1982	Oct. 16 (F)	MIDYEAR EXAMINATIONS	Dec. 16 (W)
MIDTERM DATE	Oct. 27 (Tu)	begin	Dec. 23 (W)
Award of October degrees	Oct. 28 (W)	Autumn Term ends	Dec. 23 (W)
Academic Holiday	Nov. 2 (M)	Last day to submit work for courses in which grades of I were given in the Autumn Term 1980	Dec. 24-Jan. 19, 1982 (Th-Tu)
Election Day Holiday	Nov. 3 (Tu)	Residence halls closed	Dec. 24-Jan. 24, 1982
Required meetings for planning programs	Nov. 5 (Th)	Winter recess	Dec. 24-Jan. 24, 1982
Undergraduate Record and Graduate Record Examinations for January graduates will be scheduled on one day during this week.	Nov. 9-13 (M-F)	SPRING TERM 1982	
Last day to drop a course	Nov. 19 (Th)	Last day to file for application for deferred examinations in Barnard courses	Jan. 7 (Th)
Major examinations for January graduates	Nov. 18-20 (W-F)	Last day to submit to Office of the Registrar work from Autumn Term 1981 for removal of I	Jan. 21 (Th)
		Registration	Jan. 21,22,25 (Th,F,M)
		Classes begin 9:00 a.m.	Jan. 25 (M)
		Language Placement Examinations	Jan. 25 (M)
		Award of January degrees	Jan. 27 (W)

Deferred examinations for students absent from December 1981 final examinations in Barnard courses. Deferred examinations for C,F,G,W and other Columbia courses must be taken before the end of the semester.	Program filing Last day to file tentative Autumn Term programs	May 4 (Tu)
	Last day to file diploma cards for the degree in October 1982	May 4 (Tu)
	Required reading day	May 6 (Th)
	FINAL EXAMINATIONS begin	May 7 (F)
	Spring Term ends	May 14 (F)
	Last day to submit work in which grades of I were given for Spring 1981 (Graduating seniors see April 2)	May 14 (F)
	Baccalaureate Service	May 16 (Sun)
	Conferring of Degrees	May 19 (W)
MIDTERM DATE	Last day to file application for deferred examinations in Barnard courses	
Spring Holidays		May 28 (F)
Undergraduate Record and Graduate Record Examinations for May and October graduates will be scheduled one day during this week.	Last day to submit to Office of the Registrar work from Spring 1982 Term for removal of I	June 15 (F)
Last day to drop a course	Registration for Autumn Term	Sept. 7-9 (Tu-Th)
Last day for graduating seniors to submit work not completed in previous two terms	Classes begin 9:00 a.m.	Sept. 8 (W)
Last day for sophomores to declare major choices	April 2 (F)	
Major examinations for May and October graduates	April 2 (F)	
Required meetings for planning programs	April 14-16 (W-F)	
Last day to file application for 1982-83 financial aid	April 15 (Th)	
Last day to file request for pass-fail grades	April 16 (F)	
Phi Beta Kappa-Honors Convocation	April 28 (W)	
Optional reading period	April 29 (Th)	
	April 30-May 5 (F-W)	



I. The College

BARNARD'S HISTORY

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women. The history of its achievement is an integral part of the history of Columbia University.

The University had its origin in a royal charter, granted in 1754 by George II, creating King's College. Its operations were interrupted during the Revolutionary War when its buildings were requisitioned by the Continental Armies, but it was reopened in 1784 as Columbia College and, in 1896, was designated a university.

Barnard College grew out of the idea, first proposed by Columbia's tenth president, Frederick A.P. Barnard, that young women be admitted to Columbia. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan highly qualified women were authorized to follow a prescribed course leading ultimately to a Columbia degree, but no provision was made for where and how they were to pursue their studies. Destined to fail, this arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site on Morningside Heights, and in 1900 was included in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and plant, while sharing the instruction, the library, and the degrees of a university.

The College

BARNARD TODAY

Today Barnard has a teaching staff of almost 200 men and women, outstanding scholars whose primary concern is the education of undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to 2,500; since 1893 Columbia has awarded its degree to 23,000 Barnard students. The original gifts of support have expanded to the current endowment funds of \$23,300,000.

An agreement adopted by the Barnard and the Columbia Boards of Trustees in 1973 calls for increased cooperation without assimilation between the two institutions. While Barnard maintains its identity as an independent liberal arts college for women with its own curriculum, faculty, admissions standards, and graduation requirements, it shares the resources of the University. Barnard students have open access to Columbia courses and, as an affiliate of the University, Barnard shares faculty, libraries and facilities with Columbia.

THE FACULTY

The Barnard faculty consists of scholar-teachers who have long recognized that their teaching depends upon their scholarship and grows out of it. The range of the Barnard curriculum fairly reflects this understanding, both in its concentration upon the traditional disciplines of learning and in its innovative interdisciplinary programs. The scholarly commitment of the Barnard faculty is constantly shown, too, in the variety and quality of its many research projects, its books and articles in learned journals, its participation in academic societies, and its many different kinds of publication and performance. But its abiding achievement is a constant demonstration in the classroom of the binding ties of teaching and scholarship to each other which simply will not accept the possibility of any serious conflict between them. For in these central functions, Barnard's scholar teachers honor the enduring values of their profession.

THE CURRICULUM

Specific requirements for the degree are outlined on pages 43-47. Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff who supervises the work of the freshman and the sophomore years. At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the areas of concentration and other phases of the college work. Twenty-six departments offer major programs and seven interdepartmental majors are also available.

Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with the most modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in research projects with members of the Faculty.

An integral and pervasive aspect of academic life at Barnard College is the school's Honor System, instituted in 1912.

SPECIAL CONCERN ABOUT THE EDUCATION OF WOMEN

Acknowledging the changing climate for women, the Barnard Women's Center exists to offer a wide range of programs and services, both academic and non-academic. These include an extensive resource collection of books, articles, and periodicals on women's issues, an annual academic conference examining the impact of feminism on traditional scholarship, as well as speakers, films, and poetry readings. Governed by an Executive Committee of students, faculty, administrators and alumnae, the Center strives to provide continuity and links between students and alumnae and between the College and women on and off the campus.

THE CAMPUS

The Campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, three residence buildings, Brooks, Hewitt, and Helen Reid Halls, face Altschul Court, a landscaped quadrangle.

Barnard Hall is just north of the open courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall is a modern five-story building containing the Wollman Library, faculty offices and classrooms. Three of these floors are taken up by the library, which includes the reserve room on the first floor, the reference room main catalog on the second, and on the third, the music listening facilities, audio-visual studio and control room, and art exhibit Gallery. The building overlooks a lawn surrounded by small trees and shrubs.

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences but also house the Herbert H. Lehman Auditorium on the first floor, and a language laboratory on the fourth. The laboratory, which contains 60 booths, is used by both Barnard and Columbia language students. Headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms, recreation and television rooms, bowling always, an art exhibit area and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices, classrooms, a greenhouse, and the Minor Latham Playhouse, a small well-equipped modern theater. The Language Departments maintain social and reading rooms in Milbank Hall.

Columbia University is directly across Broadway from the Barnard campus. Off campus, but in the immediate neighborhood, Barnard maintains other residence halls, including 600, 616, and 620 West 116th Street, three apartment buildings owned by the College and containing suites accommodating five to six students each; Plimpton Hall, completed in 1968, which houses 280 students in apartment-style units; and a newly-acquired building on Claremont Avenue which will be renovated during the coming year.

Barnard Camp is a 20-acre tract in Westchester County about 35 miles from New York City. The Camp and its rustic lodge, Holly House, are used by the College for both recreational and educational purposes.

More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living. Barnard is a university college in an international city, and today the curriculum affirms and encourages precise and graphic use of its vast metropolitan resources.

STUDENT LIFE

Barnard's student population is cosmopolitan in nature. While one-third of the students have families within commuting distance, others come from nearly every state and some twenty-five foreign countries. The students represent diversity in background and training, and a mingling of economic, regional and cultural strains finds expression in the life of the campus.

Every Barnard student is a member of the Undergraduate Association, which sponsors extracurricular activities reflecting current interest: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and pre-professional and

The College

departmental clubs. Cooperation between Barnard and Columbia groups is common. Many activities, such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. During the past nine years the structure of Barnard's student government has undergone fundamental revision, culminating in the development of tripartite college committees. Students, faculty, and administrators serving on these committees share responsibility for policy recommendations in the areas of curriculum, housing, financial aid, orientation, and the library.

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life. A Judicial Council of undergraduates, faculty and staff, recommends disciplinary action for nonacademic offenses.

Religious organizations and activities with headquarters on the Columbia campus at Earl Hall encompass nearly every faith and are open to all students. The Thursday Noon Meeting at Barnard provides a weekly forum for discussion of a wide range of contemporary issues. Student artists with a diversity of talents and interests collaborate to produce Winter and Spring Festivals.

The Recreation and Athletic Association sponsors many activities which include intramurals, sports week and special events. The intercollegiate athletic program, governed by the Council on Intercollegiate Athletics (CIA), sponsors varsity teams in Basketball, Crew, Fencing, Swimming, Tennis and Volleyball. Varsity teams enjoy regular competitive schedules and expert coaching. Opportunities are provided to advance to Ivy League, State, Regional and National championships.

Approximately 90% of those students who are eligible to continue at the college are enrolled in any given year; of the remaining 10%, about half are readmitted after one or more terms away for study, travel, or other reasons. An average of 80% of any entering class is graduated from Barnard. Senior classes are larger than entering classes because transfer students are admitted with sophomore and junior standing.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, 50 to 60% of those who receive the degree enter full-time graduate or professional study at once, with the largest proportions opting for medical schools (10-13%), law schools (10-12%), business schools (3-5%), education schools (3-5%), and schools of the arts (4-8%). The rest, with the exception of fewer than 1%, obtain employment in business and industry, research, publishing, teaching, and other fields.



II. Admission

Selection of Candidates

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and College Entrance Examination Board scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing four years of study at Barnard.

Barnard also seeks students from diverse educational and cultural backgrounds and from many geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs and other College programs and activities without regard to race, color, creed, national origin, or handicap.

Freshman Application Procedures

Students are admitted to the freshman class in September only, and they must be at least fifteen years of age.

Application for admission to the freshman class should be made by January 15 for entrance in September of the same year. It is advisable, however, to apply in the fall of the senior year in high school. Application forms may be obtained by writing to the Office of Admissions.

A nonrefundable fee of \$25 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with great financial need should request a fee-waiver from their high school counselor and send it with the application.

Admission

Secondary School Preparation

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

College Entrance Examination Boards

Barnard requires all freshman candidates to take the College Entrance Examination Board's Scholastic Aptitude Test (SAT) and three Achievement Tests in (1) English composition or literature, (2) a foreign language, and (3) history, science, or mathematics. These tests should be taken by January of the senior year. As early as possible, candidates should write **directly** to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, the dates on which examinations are administered, and a list of examination centers. Dates vary from year to year and applications to take the tests must be received by the CEEB well in advance of the test.

It is the student's responsibility to direct the College Entrance Examination Board to send official test scores to the Office of Admissions. The Barnard College code for this purpose is 2038.

Requests for exceptions to the Achievement Test requirement must be made in writing to the Director of Admissions.

Recommendations

Another important part of the application is the submission of two recommendations, one from the high school counselor and the other from a teacher of the candidate's choice. These recommendations give the Committee on Admissions additional information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.

Interviews

Although not required, an interview is highly recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions (212-280-2014). Appointments are scheduled Monday through Friday from nine-thirty to twelve in the mornings and from two to four in the afternoons, and on Saturday mornings. For those who are unable to arrange interviews at the College, appointments can be made with Barnard Area Representatives whose names are listed on page 290 or with the College Admissions Officers who visit major metropolitan areas throughout the country each fall.

SPECIAL APPLICATION PROCEDURES

Early Decision

Well-qualified high school seniors who have selected Barnard as their first choice college may apply under the Early Decision Plan (EDP). Although a student may submit only one Early Decision application, she may initiate regular applications to other colleges; if admitted to Barnard under Early Decision, she must withdraw all other applications. A first-choice candidate should send her application and other required credentials (listed

above under freshman application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To reserve a place in the freshman class, an Early Decision student must submit a nonrefundable enrollment deposit in January. This deposit is applied toward total annual tuition and fees for the freshman year.

The Committee on Admissions may choose to postpone decision on an EDP application until the spring. In that event, the student is asked to submit a record of school work from the first half of the senior year.

Deferred Enrollment

An admitted freshman or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Director of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest. Matriculation at another accredited college or university requires reapplication to Barnard.

Foreign Students

Each year Barnard enrolls a number of qualified foreign students. These students are expected to follow the same application procedures and present the same credentials as other candidates, including the Scholastic Aptitude Test (SAT) and three Achievement tests. Foreign students who are considering Barnard are encouraged to communicate with the Director of Admissions well in advance of entrance so that the College may assist them with their plans.



Admission

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the TOEFL scores cannot be presented, students are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

After enrolling at Barnard, foreign students receive assistance with academic placement from the Foreign Student Adviser in the Office of the Dean of Studies. In some cases, limited financial aid is granted. For more detailed information, foreign students should consult page 26 and the Office of Financial Aid.

Transfer Students

Barnard welcomes transfer students in the sophomore and junior classes each year. Applications for acceptance with advanced standing should be submitted by **May 1** for admission in September and by **November 1** for admission in January.

Each candidate must submit a formal application and the following credentials: the secondary school record, the results of the SAT's, a recommendation from the secondary school principal and from the college dean or class adviser, an official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked.

A strong record of not less than one year's work at an accredited college, foreign university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but, in general, credit is given for courses which are similar in content to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 26.

Visiting Students

Qualified students who are degree candidates at other colleges may apply for admission as visiting students (Other College Degree Candidates) for one or two semesters. Each applicant must present a satisfactory college record and letters of approval from the dean and major adviser from the degree-granting school.

Readmission

Barnard students who have not been registered for one or two terms may return without applying for readmission by notifying the Dean of Studies. Students who have not been registered for more than two consecutive semesters must apply for readmission to the Director of Admissions by **November 1** for the Spring term and by **May 1** for the Autumn term. A nonrefundable fee of \$25 must accompany each application.

Resumed Education Program

Former Barnard students who wish to return to the College after an absence of at least five years to complete the A.B. degree or for further study in new areas of interest after graduation may obtain applications from the Director of Advising and Services for Resumed Education Students in the Office of the Dean of Studies.

Admission with Advanced Placement

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement scores and by the policy of the Barnard department concerned. Departmental policies are outlined in departmental descriptions and requirements.



III. Financial Information

Annual Tuition and Fees

The costs of education at Barnard are met by tuition, by income from endowment, by current gifts from alumnae and other friends of the College, and by grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students, but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

Schedule of Annual Tuition and Fees

The following tuition and fees are required from all students for the Academic Year 1981-1982 and are subject to change without prior notice.

Tuition	
Full program (12-18 points)	\$6,802
Partial program (1-11½ points)	230 per point
Excess program (over 18 points)	230 per point
Program for Resumed Education. Tuition is assessed on the basis of a schedule available from the Director of the program in the Office of the Dean of Studies.	230 per point
Health Service (see page 40)	140.00
Accident and Sickness Insurance (see page 40)	60.00
Undergraduate Association Student Activity Fee	60.00

Financial Information

The following fees are required from all students occupying college housing facilities for the Academic Year 1981-1982

Residence Fees

Brooks, Hewitt and Reid Halls (Board required—see schedule below)	
All other college housing (Board optional—see schedule below)	
Single room	\$2,150.00
Multiple occupancy and Board	1,920.00

Board Charges—Required of all those living in Brooks, Hewitt or Reid

19 meals per week—required of all freshmen residents	1,360.00
15 meals per week	1,210.00
10 meals per week	1,110.00

Other fees - required if applicable

Application for admission	25.00
Registration in absentia (per semester)	75.00
Physical education - part-time students (per course)	230.00
Orientation fee - All Freshmen and Transfers	
entering in the Autumn Term	60.00
Senior fee - All graduating seniors	66.00
Laboratory fees (per laboratory course)	
Biological Sciences	25.00
Chemistry	28.00
Psychology	15.00
Deferred and special examinations (taken at any other time than the conclusion of the course), payable when application for the examination is filed.	
This fee does not apply to special procedures for disabled students. For each examination	10.00
Late filing of tentative program (per semester)	10.00
Late Registration Fee-	
Autumn term— \$5.00 for filing on September 10; \$10.00 through September 18; \$25.00 through October 16; \$50.00 through November 19; \$75.00 after November 19.	
Spring term — \$5.00 for filing on January 26; \$10.00 through February 3; \$25.00 through March 5; \$50.00 through March 25; \$75.00 after March 25.	
Late Program Filing Fee-	
\$5.00 for filing on the day after the deadline; \$20.00 through September 30 for the Autumn Term and February 10 for the Spring Term, plus \$10.00 for each week or part of a week thereafter.	
Late Processing fee (charged for tuition and fee payment received after the due dates noted below)	25.00
Late filing of:	
Application for deferred exam	15.00
Under certain circumstances, course or departmental charges may be made.	
Please see announcements of departmental offerings and special requirements for courses in the University.	
Consult the College Calendar (page 6) for appropriate filing dates and deadlines.	

Financial Information

Payment of charges and fees

All charges and fees (unless otherwise noted) are billed on a semester basis. The fall term tuition is due August 1, and the spring term tuition by December 15. Payments received after these dates are subject to a late processing fee of \$25. Registration for either semester will not be complete until all College costs have been paid. Failure to complete registration on time imposes the late registration fee. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 1, must pay the balance due (one-half of the annual charges and fees) by the first day of registration.

Financial aid grants and any loans applied for may be deducted from the semester tuition before computation is made of the balance due.

Privileges of the College, including issuing of transcripts and administration of examinations are not available to any student who is delinquent in the payment of her College bills. When bills are not paid in full by their due date or satisfactory arrangements for their payments made with the Bursar, the student will be required to withdraw from the College. College costs include annual tuition and fees, residence charges (if any), fines due the libraries and the Columbia Bookstore, assessments for room damage, and other charges that might be incurred throughout the College community.

All charges and fees are subject to change at any time at the discretion of the Board of Trustees

Checks or money orders in payment of tuition and fees must be in U.S. funds (at a U.S. bank) payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

Deposits

All students. To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a deposit of \$100 toward annual tuition and fees on or before May 15. An applicant for admission will be billed for the deposit at the time she accepts admission to the College. One-half of the deposit is deducted from each semester's bill. If the Bursar is notified by July 1 that a student does not plan to return to Barnard for the academic year 1981-1982, the entire deposit of \$100 will be refunded. After July 1, \$50 of the deposit is forfeited.

Students in Residence. New students who have been offered space must submit a deposit of \$200 by May 15th. The entire \$200 deposit will be applied toward the cost of the room or apartment. If the Bursar is notified of a cancellation of the room request by July 1st, \$100 will be refunded (\$100 is non-refundable upon receipt). All returning "resident" students must pay their \$200 room deposit in person prior to the room lottery held in March.

Deferred Payment

For students and parents desiring to pay education costs in monthly payments, a choice of payment plans is available. The College has arranged to participate in the Richard C. Knight Insured Tuition Plan of Boston and the Tuition Plan of New Hampshire. Information on these plans is sent to the parents of all incoming students. The Tuition Plan of New Hampshire is available to all returning students as well. Information can be obtained in the Barnard Business Office.

Adjustment of fees and refunds

For changing program of study. If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration in her program is made by September 18 (last day of program filing) in the Autumn Term and by February 3 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

Financial Information

For withdrawal. If a student withdraws from the College after July 1, the following amount of tuition and residence fees will **not** be refunded:

Tuition	\$ 50
Resident fees	\$200 (\$100 of this amount is non-refundable upon receipt)

A pro-rata refund of remaining charges is made on a semester by semester basis in accordance with the following schedule:

Fees. All required fees are non-refundable after Autumn and Spring Term registration dates as noted in the College calendar.

Tuition. Tuition refunds for withdrawal are as follows:

Up to and including the first Friday of the term - full refund except deposit (\$50). After the first Friday of the term, 10% of the remaining tuition will be retained by the College for each week or part of a week up to the date on which the student's written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Residence Charges. up to the first day of classes - full refund except deposit (\$200). After the first day of classes a pro-rata refund of remaining charges to the date the vacated room is rented by the College Housing Office.

Optional Board Plan. Pro-rata refund from the date the meal card is received by Food Service less \$50 non-refundable deposit.

Safekeeping of Students' Funds

Barnard College is not able to receive funds from students for safekeeping or to cash personal checks or travelers checks.

To cover immediate expenses, students should provide themselves with travelers checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. Validated ID cards are issued after students register at the beginning of each term.

Financial Aid

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin, handicap, or sexual orientation.

Financial aid from the College consists primarily of grants and loans, although opportunities for part-time employment are also provided. In addition to providing financial aid from its own funds, i.e. gifts, endowment, and general income, Barnard participates in the following Federal programs: the Basic Education Opportunity Grant program, the Supplemental Educational Opportunity Grant program, the National Direct Student Loan program, the Guaranteed Student Loan program, and the College Work-Study program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans offered by local banks and insurance companies.

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

Financial Aid Awards

Financial aid awards are made on an annual basis to full-time students who demonstrate financial need. A detailed explanation of current College policies and awarding practices

Financial Information

may be found in the brochure, Barnard College Financial Aid Information, available from the Office of Financial Aid.

The system of awarding financial aid according to need is based on the premise that the applicant's family has the primary responsibility for financing a college education; financial aid is intended to supplement what a family might reasonably be expected to contribute toward an applicant's college expenses. In addition to parental resources, each applicant is expected to provide a reasonable amount from her own assets, summer employment, and other resources to which she may be entitled, such as social security and veteran's benefits.

An individual student's need is determined by current College costs and policies and by the need analysis system of the College Scholarship Service (CSS) and is based on information provided by the parents/student on the Financial Aid Form (FAF). Consideration is given to such factors as family income, assets, size of family, age of parents, and number of children attending college. The Office of Financial Aid thoroughly reviews each analysis and may adjust the CSS need determination whenever there is documentation of special family problems or whenever there is reason to believe that information provided on the FAF is incorrect or incomplete. **The College will be the sole judge of the financial aid to be granted, and may, at any time, withdraw or discontinue such aid.**

When funds are not sufficient to meet the needs of all students who are offered admission, aid will be offered to as many well-qualified applicants as possible, with preference to those needy students whom the Committee on Admissions determines to be the strongest applicants.

Awards are for one year only. Students who receive aid, upon entering Barnard, must submit a new application each year in order to be considered for aid in succeeding years.

Students who do not receive aid on entering Barnard should not expect aid from the College in subsequent years. Only after discharging obligations to students already receiving aid and to entering students will the College be able to consider applications from such students. Freshmen who apply for financial aid and show need, but are denied financial aid from Barnard due to limited funds, cannot expect to receive Barnard College Grants until their Junior year. Awards are for the academic year only. No financial aid is given for Summer study.

Any student seeking **readmission** to and financial aid from the College who did not obtain prior written permission for her leave must appeal her case through the College Appeals Committee. Information about this process may be obtained from the Office of the Dean of Studies. Such readmitted students will be considered for aid only after the financial needs of all continuing and entering students have been met.

All students who receive financial aid, whether from federal, state, or Barnard College funds, must be enrolled degree candidates in good standing (at least a 2.0 GPA). They must also be making sufficient academic progress toward the degree as defined in the Barnard College catalog. If the aid recipient has not met these criteria in the prior semester, she will be dropped from aid. Exceptions to these policies can be made only by the College Appeals Committee. A student must be taking at least 12 points each semester to receive financial aid. No student, except under extraordinary circumstances, will receive more than a total of 8 semesters' aid from Barnard funds, and such exceptions must be made by the College Appeals Committee. Students may be eligible for more than 8 semesters of some federal and state grants depending upon the circumstances. For transfer students, the 8 semesters' of eligibility for college funds includes semesters on financial aid at other institutions.

Application Procedures

Entering Freshmen. A Barnard College "Application for Financial Aid" may be obtained from the Admissions Office. It should be completed and returned to that office on or before **January 15** by regular applicants, and on or before **November 15** by Early Decision applicants.

Financial Information

Each financial aid applicant must also have her parents file a Financial Aid Form (FAF) with the College Scholarship Service (CSS) not later than **January 15** of her senior year in high school. The FAF should be obtained from the high school guidance office. (NOTE: **Children of divorced or separated parents and those applicants claiming "self-supporting" status should consult with the Office of Financial Aid before filing the FAF.**)

Applicants should mail the completed FAF, with the appropriate fee, to the CSS at the address indicated on the form. **Barnard's CSS Code Number, which must be listed on the FAF, is 2038.** The CSS will then send a complete copy of the FAF and an analysis to Barnard.

Barnard requires aid recipients who expect to enroll in September to provide exact copies of parents' federal income tax returns (IRS Form 1040) prior to disbursement of financial aid funds. Tax returns are used to verify information on the FAF. Other documents, as individual circumstances dictate, may also be required.

All financial aid applicants **must** apply for a Pell Grant, preferably by completing the section on the Financial Aid Form designated for that purpose.

Each student who submits a complete financial aid application will be considered for all types and sources of financial aid administered by the College, including federal, state, and institutional grants, loans, and work programs. Students are normally notified of the college's financial aid decision when they are notified of their admission.

While all information submitted by the student and/or her family in support of her application for financial aid is treated with the utmost confidentiality, Barnard does confer with several colleges with which it has a high frequency of common applicants so that some consensus can be reached on the expected family contribution. This procedure helps to insure that a student's choice among these colleges can be based on other than financial reasons. If an entering freshman applies to more than one of these colleges (Amherst, Barnard, Bowdoin, Brown, Bryn Mawr, Colby, Cornell, Dartmouth, Harvard-Radcliffe, Middlebury, Mount Holyoke, Princeton, Smith, Trinity (Conn.), Tufts-Jackson, University of Pennsylvania, Vassar, Wellesley, Wesleyan, Williams, and Yale), her financial aid awards will usually vary only because of differing costs at the respective colleges.

Transfer Students. Financial aid to prospective transfers is limited. Transfer students will not be eligible for a Barnard College Grant during their first year, but may receive aid in subsequent years depending on the availability of funds. There are a limited number of Barnard College Loans available for junior transfers and all transfers are advised to apply for grants through the Pell Grant Program, state scholarship/tuition assistance programs, and other outside scholarships. Transfer students may also be considered for low interest loans or part-time employment through the college.

The prospective September transfer who is applying for financial aid must submit by **May 14** the FAF to the College Scholarship Service, a Barnard College Financial Aid Application, a Financial Aid Transcript (even if no aid was received) from her previous college(s), and her/her parents' most recent IRS 1040, all schedules, to the Office of Financial Aid. Other documents, as individual circumstances dictate, may also be required.

Due to limited funds, Barnard College aid is not available to January transfers; however, to apply for federal and state aid, January transfers should file the FAF, a financial aid transcript(s), and the appropriate IRS 1040 by November 15th.

Foreign Students. Although we recognize the enormous need of many foreign students, Barnard is not able to consider any foreign student who is entering Barnard for the first time in September, 1981, for financial aid. Nor can we consider aid for students already attending Barnard who were not previously recipients of Barnard College Grants. Barnard will continue to aid renewal students who demonstrate need.

Financial Information

Other Degree Candidates. Students studying at Barnard College, but matriculated elsewhere, receive no financial aid from Barnard. Pell grant payments must be made by their home institutions, once a consortium agreement has been signed. Therefore, Pell grant eligible students are urged to contact Offices of Financial Aid at their home institutions **before** enrolling at Barnard. Students wishing Guaranteed Student Loans or TAP must provide Barnard's Office of Financial Aid with letters from their home institutions which certify class standing, prior financial aid received, and that successfully completed Barnard course work will be applied toward their baccalaureate degree.

Application Procedures. Renewal Students.

Application forms are available in the Office of Financial Aid at the beginning of the Spring semester.

Applications must be **submitted** on or before **April 19**, unless otherwise announced by the Office of Financial Aid. Notices of Barnard's financial aid decisions will be mailed to applicants by **July 1**.

New York State Tuition Assistance Program (TAP) Awards

A student who has been a legal resident of New York State for the preceding year may be entitled to a TAP Award (\$100 to \$900 per term) for up to four years while she is registered as a full-time degree candidate. The amount of this award is based upon the net taxable balance of her income and the income of those responsible for her support, as reported on the New York State income tax return for the previous year. Application for awards must be made annually and should be filed by June 15 for each academic year. A special application available from New York State (address below) must be filed for TAP.

Further information and application forms may be obtained from the New York Higher Education Services Corporation, Empire State Plaza, Tower Building, Albany, New York 12223. Information on TAP awards is subject to changes in state law.

New York Regents College Scholarships

Each year the Regents of the University of the State of New York award scholarships to full-time degree candidates who are legal residents of New York State. These awards are based on one's performance on a competitive examination and are open to students in any approved college or university in the state. Awards are set at \$250 per year. High school students can obtain further information from their counselors. New York Regents Scholarships are not automatically renewed; recipients must reapply annually. All Regents Scholarship holders must complete a TAP application no later than September 1 of the academic year for which they are requesting payment.

Pell Grant (Formerly Basic Educational Opportunity Grant)

This federal program provides grants ranging from \$200 to \$1,750 to eligible undergraduate students.

A student may apply for a Pell grant by completing the appropriate section on the Financial Aid Form (FAF) of the College Scholarship Service. Pell grant applicants will be notified of eligibility by a Student Eligibility Report (SER) mailed to her home by the Pell grant office in Iowa City.

A student enrolling at Barnard should bring all three copies of her SER to the Office of Financial Aid whether or not she has been designated eligible for a Pell grant.

Further information on Pell grant and its application procedures may be obtained at the Office of Financial Aid. Information on Pell grant is subject to changes in federal regulations. The College has made the maximum possible commitment that it can to financial aid support. We do not anticipate, based on current projections of student need and expected levels of federal support, that additional college funds will be available to cover proposed federal cuts in the Pell Grant Program.

Financial Information

Supplemental Educational Opportunity Grant (SEOG) Program

This federal program provides grants ranging from \$200 to \$2,000 per year for undergraduates of exceptional financial need. Barnard selects SEOG recipients from among those students to whom the College awards financial aid. Information on SEOG is subject to changes in federal regulations.

Higher Education Opportunity Program (HEOP)

HEOP is a special program which provides grants to residents of New York State who meet the economic criteria established by the State Education Department. Eligible students must also be considered educationally disadvantaged in comparison to the average Barnard applicant. Information about academic and economic criteria can be obtained from the Office of Admissions, the Office of Financial Aid, and the HEOP Office.

Loan Funds

Financial aid, in the form of student loans, is available to eligible Barnard students through the programs listed below. **Amounts received through these programs must be repaid with interest.**

National Direct Student Loan (NDSL)

The NDSL program provides low interest loans to students of high need. The maximum amount which an undergraduate may borrow cannot exceed \$3,000 for the first two years of attendance and \$6,000 for the four year program. For students with loans made before January 1, 1981, repayment begins nine months after the borrower graduates or leaves school for other reasons (separation). For loans made after January 1, 1981, repayment begins six months after separation. During the repayment period, the borrower will be charged 3% interest on all loans made before July 1, 1981. There is a 4% interest charged on all loans made after July 1, 1981. Should the student pursue at least half-time undergraduate, graduate or professional study after leaving Barnard, the grace period will not begin until after completion of or withdrawal from the program. Information on NDSL is subject to changes in federal regulations.

Guaranteed Student Loans (GSL)

The GSL program enables students to borrow directly from participating lenders such as banks, credit unions, or savings and loan associations in their home states. Students should consult their local banks for information and application forms.

The maximum which a dependent student may borrow is \$2,500 a year with an aggregate maximum of \$12,500. An independent student can borrow a maximum of \$3,000 a year with an aggregate maximum of \$15,000.

The interest rate on a GSL for a student who is a previous borrower (has obtained a GSL before January 1, 1981) is 7%; for students who obtain their first loan after January 1, 1981, the interest rate is 9%. An insurance premium of 1% per year may be collected in advance. The Federal Government pays the interest on these loans until repayment begins or during authorized periods of deferment.

If a student has borrowed before January 1, 1981, repayment begins nine months after the student graduates or ceases full-time study. For students who obtain their first loan after January 1, 1981, the repayment period begins six months after graduation or the termination of full-time study. For further information on deferment and repayment, borrowers should contact their local banks. **Information on GSL is subject to changes in federal regulations.**

Parent Loans for Undergraduate Students Program (PLUS)

The Education Amendments of 1980 have authorized a program of loan insurance for parents who wish to borrow to meet the educational costs of dependent undergraduate

Financial Information

students. The aggregate insured principal amount for all PLUS loans made to a parent on behalf of one eligible student may not exceed \$15,000. The maximum loan amount authorized for any one academic year must be at least \$1,000, but may not exceed \$3,000, on behalf of each eligible student. The borrower's repayment period begins on the day the loan is disbursed and the first payment is due within 60 days. The borrower must be allowed at least five years but not more than 10 years to repay a loan. For further information, please contact your local bank. Information on PLUS is subject to changes in federal regulations.

Barnard College Loans

The Associate Alumnae of Barnard College maintain a Student Loan Fund from which loans to seniors are made. In 1950, through a gift of \$26,000 from Mr. and Mrs. Gerald Swope and Miss Henrietta Swope, an additional fund known as the Swope Loan Fund was established. In the spring of 1960, the Barnard College Loan Fund was established by the Board of Trustees to help meet the increased need of students. In 1961, the Pauline Hirschfeld Loan Fund was established with a bequest of \$5,000 from Pauline Steinberg Hirschfeld, '08. In 1966 two new loan funds were established: the Barnard College Club of Cleveland Loan Fund with gifts of \$1,276 to be used with preference for a student from a Northeastern Ohio area; and the Ann Susan Becker Memorial Loan Fund with gifts of \$1,530 from her family. In 1968 the Adelaide Le Ciercq Loan Fund was established with a gift of \$3,000 from Adelaide M. Hart, '06, to be used with preference for a student majoring in music or French. In 1971 the Gertrude C. Hitchcock Loan Fund was established with a \$50,000 bequest of Norman S. Goetz.

These funds are administered by the Committee on Financial Aid. Loans are regularly assigned as part of a student's financial aid award. No interest is charged while the student is in college. Payments on principal may be made at any time before graduation. The remainder of the principal is repaid in semiannual installments of \$150 each after the student ceases to be in full-time attendance at Barnard. Interest is charged from the first day of the month after the student ceases to be in full-time attendance at Barnard at the rate of three percent per year on the unpaid balance.

The Morris Morgenstern Student Loan Fund of \$5,000 was established in 1959. Interest-free loans not exceeding \$100 are granted upon application to the Office of Financial Aid to students who are in need of temporary emergency assistance. Loans must be repaid within four months of issue.

The Tudor Foundation Student Loan Fund of \$25,000 was established in 1967. Interest-free loans not exceeding \$1,000 in any one academic year are granted upon application to the Office of Financial Aid, to mature when the student terminates her connection with the College.

STUDENT EMPLOYMENT

College Work-Study Program (CWSP)

This federal program provides job opportunities for financial aid recipients who wish to earn a part of their college expenses. Work-Study awards are made by the Office of Financial Aid. On-campus and off-campus jobs are arranged through the Office of Career Services, and priority is given to students demonstrating greatest need. Wages vary, but will always be equal to or greater than the minimum wage rate. Jobs usually entail 6-10 hours of work per week, with a limit of 15 hours per week during the academic year.

Other Employment

In addition to Work-Study jobs, the Office of Career Services lists a variety of part-time jobs, both on and off-campus. Job opportunities are usually numerous, due to Barnard's location in New York City.



IV. Student Life

Barnard students soon discover that their classmates may also be counted among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents from nearly every state and some twenty-five foreign countries as well as those who live within commuting distance. Diversity is one generalization that can be safely made about Barnard students, and a mingling of economic, regional, ethnic, and cultural groups is evident in campus life.

STUDENT GOVERNMENT AND ORGANIZATIONS

During the past ten years the structure of Barnard's student government has undergone fundamental revision, culminating in the development of College Committees on which students, faculty, and administrators serve, and which recommend policy and procedural changes in the areas of curriculum, housing, financial aid, college activities, athletics, and commencement.

All Barnard students are members of the Undergraduate Association which elects a representative student government. "Undergrad" sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, which include the Pottery Co-op, Barnard Organization of Black Women, Société Française, Commuter Action Coalition, and Women in Health Careers, for example, are funded by the assessment of a student activities fee. The student newspaper, **Bulletin**, is published weekly and the **Barnard Literary Magazine** is an annual publication. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, ethnic food, and pottery and plant sales. Theatre-Goers Guild offers students the opportunity to attend professional dance, theatre, and opera in New York at reasonable prices. Students in many academic disciplines supplement coursework with department-sponsored programs, lecture series, and performances during the school year.

Student Life

Cooperation between Barnard and Columbia groups is common. Many activities such as the University's chorus, orchestra, radio station, and community service programs enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia campus in Earl Hall encompass every faith and are open to all students. For more complete information, students should consult "A Guide to Barnard," the student handbook, and inquire at either the College Activities Office or the Undergraduate Association in McIntosh Center.

The Recreation and Athletic Association sponsors many activities including intramurals, sports week, and special events. The intercollegiate athletics program, governed by the Council on Intercollegiate Athletics (CIA), sponsors varsity teams in basketball, crew, fencing, swimming, tennis, and volleyball. Varsity teams compete regularly and have advanced to Ivy League, State, Region, and National championships. Consult the Director of Athletics for further information.

Recreational facilities include a snack bar, lounge, music practice rooms, and bowling alleys in McIntosh Center; swimming pool, gym, and dance studios in Barnard Hall; and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational facilities of the University as well. About thirty-five miles from New York, Barnard maintains a twenty-acre camp and lodge, Holly House, for both recreational and educational purposes. For additional information and fees, consult the Holly House Secretary, Alumnae Office, 221 Milbank Hall.

STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board which has a membership of students and faculty members. A more complete explanation of the system may be found in the student handbook, "A Guide to Barnard." A Judicial Council of undergraduates, faculty, and staff, recommends disciplinary action for nonacademic offenses.

Enrollment in the College, award of academic credit, and conferring of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and administration and in College Committees.

Each student who registers at Barnard agrees to maintain the honor code which provides that she will not ask for, give, or receive help in examinations or quizzes, or present oral or written work that is not entirely her own. Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct on the University campus and in the College residence facilities are recommended by student, faculty, and administrative committees to the Vice President for Student Affairs, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in "A Guide to Barnard," and all decisions are subject to review and final disposition by the President.

HOUSING

Barnard strives to maintain as diversified a housing program as possible, providing several options for resident students. These options include traditional dormitories, self-contained suite arrangements, and apartment units in college-owned buildings adjacent to the campus. In a cooperative exchange with Columbia College about 210 spaces are available for those who choose co-educational arrangements. Apartments have also been secured in several buildings off-campus which meet the standards for college-operated residences. Policies regarding eligibility for housing and manner of assignments are formulated by a college Housing and Campus Environment Committee with a membership of students, faculty, and administrators. A more complete description of each facility may be found below.

Student Life

Eligibility

The College has residence facilities for approximately half of the student population. Eligibility criteria have been established in order to assign available space on the most equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible the following criteria will determine eligibility:

1. A student must be registered for a full academic program. Any exceptions will be made only upon appeals submitted to the College Appeals Committee.
2. A student is classified as a "resident" if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.
3. Any student may live off campus regardless of rank. A permission form signed by the parent or legal guardian must be on file in the Office of Residential Life for any student under 18 years of age. Whenever possible, the Office of Residential Life staff and Space Limited (see page 40) refer non-resident students to appropriate off-campus housing. Resident students who choose to withdraw from College housing lose their class priority in room drawing.
4. A "non-resident" is a student whose permanent residence is within the geographic area classified by the College as the commuting area. Students may consult an off-campus housing registry for help in obtaining accommodations near the College. Some dormitory rooms are reserved for non-residents for occasional overnight accommodation. Per diem fees are charged for these rooms.
5. A student is responsible for reporting any change in permanent address to the Registrar of the College.

Request for Resident Status

All discretionary decisions and appeals regarding resident status will be reviewed by the College Appeals Committee, whose decisions are final and binding. Requests for housing from readmitted students will also be determined by the College Appeals Committee.

Assignments

Returning upperclass students are assigned rooms in college residences on the basis of a lottery and room drawing. The general order of assignment is as follows: resident upperclass students, incoming resident freshmen, readmitted resident students, resident transfer students.

Housing Units

Brooks, Hewitt, and Reid Halls or "B-H-R" at 3001 Broadway are operated as a single complex with space for approximately 522 students. It is a supervised dormitory with a staff including a director, graduate assistants, and student residence assistants. Reid Hall is an all-female building housing primarily first year students who are assigned to double rooms. Brooks and Hewitt are predominantly upperclass dormitories. The lower floors are co-educational and the upper floors remain all-female. All students living in these halls must subscribe to the College meal plan.

616 West 116, an apartment-style supervised residence directly across the street from the other halls, provides housing for 207 residents in suites of single and double rooms. Each suite has a kitchen and a bath. Subscription to the meal plan is optional.

Plimpton Hall, an apartment-style supervised dormitory on Amsterdam Avenue and West 121 Street, a short walk from the main campus, provides housing for 285 residents in suites of five rooms. Each suite has a kitchen and bath. Subscription to the meal plan is optional. Approximately 100 Columbia students reside there in all-male suites.

Student Life

College-owned apartment units, 600 and 620 West 116 Street, house about 250 students in supervised residences. Resident seniors have first priority for this space. Subscription to the meal plan is optional. College-leased apartment units house students in several off-campus locations.

Married Students

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

Financial Aid for Room and Board

A resident student may use the Room and Board portion of her financial aid award for college housing, or if she prefers, toward her own non-Barnard housing. No resident student ever receives more financial aid for Room and Board than the amount required to cover the cost of living and eating in college residences.

THE WOMEN'S CENTER

The Women's Center was founded in 1971 in acknowledgment of the profound changes in women's lives and expectations and as a further expression of Barnard's traditional commitment to women. Today it is nationally recognized as a model for women's centers because it links all parts of the College community and extends its resources to women beyond the campus gates. Through a wide range of programs and services, the Center provides a physical and psychological meeting space for women, as well as a forum to discuss feminist concerns, both academic and nonacademic. The Center maintains an expanding resource collection of over 4,000 books, articles, special issues of journals, and bibliographies in addition to subscriptions to over sixty newsletters and periodicals on women's issues. It also serves as a clearinghouse of current information on women's studies programs, research on women, women's professional and activist groups, and special events for women.

An annual academic conference, **The Scholar and the Feminist**, continues inquiry into the impact of feminism on traditional scholarship. In recognition of its catalytic effect on the development of new feminist scholarship, papers and workshop presentations from **The Scholar and the Feminist** are published each year.

The Women's Center also sponsors and co-sponsors a number of other programs. The Reid Lectureship brings to Barnard distinguished women in public life and the arts who have shown a commitment to other women. A regular series of monthly luncheon meetings focuses on significant women's issues with guest speakers and discussion. Poetry readings by students, alumnae, faculty, and staff, an annual women's film and video festival with the Barnard library, and a close relationship with the Women's Studies Program all reflect the Center's integrated and connecting role at the College.

The Center is governed by a twelve-member Executive Committee composed of equal representation from students, faculty, administrators, and alumnae. Located in 100 Barnard Hall, the Women's Center is open throughout the year.

V. The Library

Wollman Library and Other Library Resources

The main collection of 150,000 volumes, arranged on open shelves, contains books and microforms selected to cover curricular requirements and provide opportunities for independent work in many fields. A large collection of musical and spoken records, a wide selection of periodicals and journals, and a small browsing section for popular books, records, and cassettes supplement the book collection. There are ample listening facilities for records and the reading areas contain individual study carrels. In the Gallery, painting, sculpture, and drawings by Program in the Arts majors, faculty, and staff are exhibited.

Special collections in the library include the Barnard Archives, a historical collection of official and student publications, documents, letters, and photographs from Barnard's founding in 1889 to the present; the Alumnae Collection of fiction, poetry, nonfiction, and translations published by former Barnard students; the personal library of the Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors; and a small rare book collection containing early versions of the English Bible and representative examples of English literature in original editions from the fifteenth to the twentieth centuries. The library has an especially strong collection in women's studies, supplemented by the Women's Center resources.

When the College is in session the main library is open seven days a week. The Reference Department offers an instruction program to help each student develop efficient library skills and bibliographic control over her own area of study. An Audio-Visual Department provides equipment for instructional use, both in the library's studio and other locations on and off campus.

There are two departmental libraries in addition to the main collection, the Chemistry Library in Altschul Hall and the Geology/Geography Library in Milbank Hall. Barnard students also have access to Columbia University's libraries with their 5 million books, 1 million microforms, and 57,000 periodical listings. In addition to these campus libraries, students may use the many libraries and collections in the metropolitan area, some open to the public and others accessible by special arrangement.



VI. Advising and Student Services

ACADEMIC ADVISING

Requirements for the degree are specified on page 43. Individual questions should be directed to the Dean for Academic Services or the appropriate adviser listed below.

Class Deans and Advisers 105 Milbank 280-2024

After being notified of acceptance to the College, each entering freshman will receive a program form and the Freshman Program Guide from the Director of Freshman Programs. The student selects courses for the fall semester and returns the completed program form to the Director who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September.

The Dean for Freshmen oversees the academic advising of freshmen, directs the planning for freshman orientation with the help of a committee of upperclass students, and coordinates other special programs for freshmen. Group meetings with department chairmen and other professors are arranged periodically to facilitate the selection of majors.

Assistance in planning courses of study is given to freshmen and sophomores by the class advisers. Group meetings are scheduled during freshman orientation and program-filing periods. For individual advising, students may schedule appointments in 105 Milbank.

Advising and Student Services

In the second semester of her sophomore year, each student chooses her major field in consultation with the Dean for Sophomores, her class adviser, the academic department and the Director of Career Services. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school.

While it is the student's responsibility to fulfill all degree requirements, the Dean for Seniors reviews each senior record and advises on graduation status. A senior handbook describing College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCAT, and fellowship applications is sent to the McIntosh mailboxes at the beginning of the fall semester. The Dean for Seniors directs the planning for commencement with the help of class officers and the Commencement Committee.

Transfer Students

Individual appointments with the Director of Transfer Student Services and the transfer advisers may be arranged in the Office of the Dean of Studies.

Other College Degree Candidates

Students who enroll for classes at Barnard but who will graduate from another college must have approval from the degree-granting school for coursework to be completed at Barnard. Program-filing and registration are guided by the Dean for Seniors.

Foreign Student Adviser

Advice on situations arising from foreign student status is available in the Office of the Dean of Studies.

Study Abroad

Students who wish to study abroad for credit toward the Barnard degree are urged to secure approval before leaving the country. Information and forms are available in 105 Milbank.

Pre-professional Advising

Students who are interested in post-baccalaureate professional training may consult the Dean for Pre-professional Students for help in programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional adviser in the junior year is recommended for any student interested in law, social work, architecture, journalism, or business. The pre-professional secretary maintains recommendation files and forwards materials required for applications.

Graduate School Advising

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult appropriate faculty members and the Dean for Seniors. A student who plans to apply to graduate school should, in her senior year, establish a file with the secretary for graduate school recommendations in the Office of the Dean of Studies.

Advising and Student Services

Higher Education Opportunity Program 104 Milbank 280-3583

The Higher Education Opportunity Program, a support service to meet the needs of undergraduate women from backgrounds that are disadvantaged economically or academically, provides counseling, tutoring, and financial assistance. In a six-week summer program, all incoming HEOP students increase their English, math, research, and public speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

Resumed Education Program 105 Milbank 280-2024

For advice on academic study and College services for students returning to Barnard after an absence of five years or more to complete the A.B., or for graduates redirecting their careers and exploring new interests, consult the Director of Advising and Services for Resumed Education Students in the Office of the Dean of Studies.

STUDENT SERVICES

Office of Career Services 11 Milbank 280-2033

The Office of Career Services helps students and alumnae define and implement career plans. To provide this service, the Director and career advisers have designed projects enabling them to explore careers, to keep informed about current labor market trends, and to earn money to finance their education. All placements for the Federal College Work Study Program are made through this office. In addition, individual counseling on careers and related concerns is available.

A newsletter published by the staff informs students about career programs and group counseling sessions. To aid students and alumnae in exploring career areas, CONTACT, a file listing over 1,400 alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues are housed in the Office. Workshops on specific concerns, such as resume writing and job interviews, are conducted when the College is in session.

To enable students to clarify vocational interests, the Office sponsors internships in many professional fields and occupations for a semester, the summer, or the January intersession. Interns gain work experience of a more professional level than students ordinarily can and a few students also arrange academic credit for internships through the Experimental Studies Program.

The Office, which is open twelve months a year, has contacts with many academic institutions, museums, business firms, hospitals, government agencies, libraries and a large number of other potential employers. Students use part-time and temporary job listings for both on- and off-campus jobs. The Barnard Babysitting Service, a student-run enterprise supervised by the Office, receives thousands of requests annually and provides work for many students. Recruitment for many professions is held at Columbia in the fall and spring for graduating seniors. **The Job-Seekers Newsletter** announcing full-time job opportunities is issued every two weeks and is mailed to alumnae who request it. Students and alumnae are encouraged to establish permanent recommendation files at the Office of Career Services for future employment.

Office for Disabled Students 103 Milbank 280-4634

In 1978, Barnard established a program to provide disabled women with services which enhance their educational, pre-professional, and personal development. The Dean for Disabled Students and her staff work with other administrators and members of the faculty to assist disabled students in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Aides, readers, tutors, and note-takers are available on request. The Committee to Meet the Needs of the Disabled works to reduce all architectural and other barriers at the College.

Advising and Student Services

The buildings on the Barnard campus interconnect. Classrooms and other facilities are accessible to disabled students. Maps of the campus showing special features and access routes are available in the Office for Disabled Students.

Financial Aid 119 Milbank 280-2154

Students who have questions or problems regarding financial aid are encouraged to make appointments with a counselor in the Office of Financial Aid. Advice is available on applying for financial aid, budgeting, and computation of financial aid awards. For more detailed information, students should consult page 24.

Health and Counseling Services 202 Barnard 280-2091

The Student Health Service provides diagnosis and treatment of all major and minor health problems and preventative health care in relevant areas. The staff is composed of a Director (an internist), an Associate Director, consultants in Adolescent Medicine, Gynecology, and Dermatology, three psychiatrists, two additional psychotherapists, three nurses, and an administrative staff.

The medical report, required of every student as a prerequisite to enrollment, is filed with the Health Service. Complete examinations are performed for seniors in the Autumn term and sophomores in the Spring term. They are not mandatory, but are recommended and are required if health certificates are needed.

All students regardless of residence must immediately report any illness, however minor, to the Student Health Service. If a resident student wishes to have someone other than the Health Service physicians care for her, her parents should send the name and address of the doctor to the Director before registration.

Campus medical service is available to all Barnard students and is covered by the Student Health Service fee of \$140.00. This service is not available during College vacations. Students are entitled to the following services:

- 1) an unlimited number of visits to the staff physicians;
- 2) an unlimited number of visits to the gynecologists and dermatologist;
- 3) use of the Counseling Service;
- 4) weekend and night-time coverage.

The following services are available at an additional charge; these services are covered by the Barnard Insurance Plan when ordered by Barnard staff physicians:

- 1) hospitalization at Presbyterian Hospital;
- 2) medications;
- 3) laboratory tests and x-rays;
- 4) consultations.

The following services are not provided:

- 1) home visits;
- 2) consultations when the College is not in session;
- 3) dental care;
- 4) filling of prescriptions by outside physicians.

For additional information, students are encouraged to consult **Barnard Health Service, a Student Guide** which is available at the Student Health Service. Enrollment in the Barnard Insurance Program is compulsory. For further details consult the Barnard Insurance Brochure.

Resident and Commuter Advisers

As part of the student support network, upperclass students in each residence facility are designated as Resident Advisers to answer questions on campus life for resident students. Commuter Advisers are available to help non-resident students participate in all campus activities. The Commuter Advisers' Office is located in 206 McIntosh Center.

Advising and Student Services

Space Limited 209 *McIntosh* 280-3095

A student-operated referral service for off-campus housing, Space Limited is supervised by the Associate Director of Residential Life and maintains listings for a variety of accommodations.

Women's Counseling Project 107 *Barnard* 280-3063

Affiliated with the Barnard Women's Center, the Women's Counseling Project is a free, confidential referral service specializing in the areas of health care, therapy, sexuality, and the law.

Recommendations

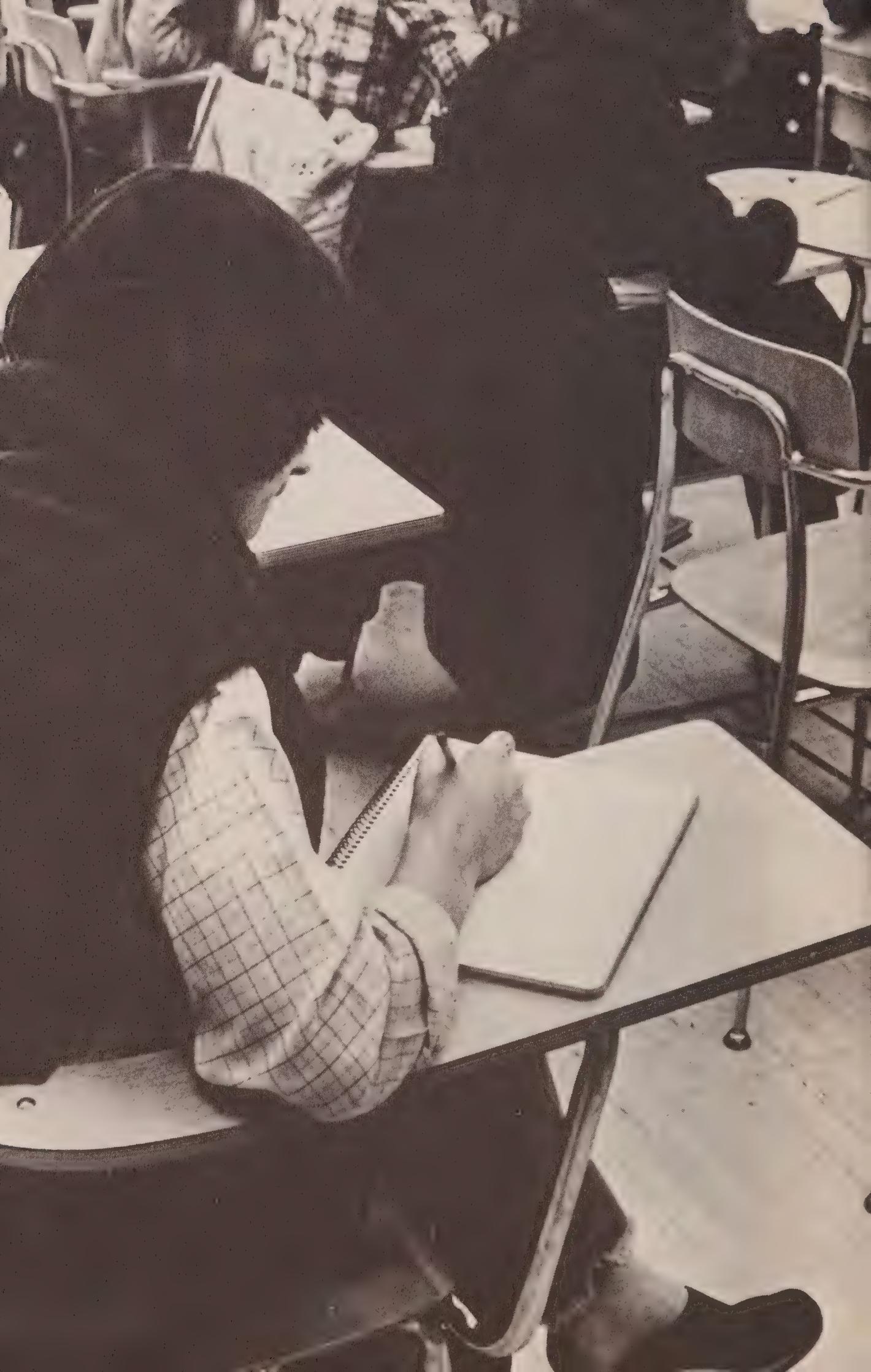
Students may establish recommendation files for employment in the Office of Career Services, for graduate study with the recommendations secretary in the Office of the Dean of Studies, for professional schools with the pre-professional secretary in the Office of the Dean of Studies. Consult the appropriate office for procedures and policy.

Student Records and Information

The Family Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without written request. A further explanation may be found in "A Guide to Barnard College."

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the students, the following information: name; class; home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with The Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.





VII. Degree Requirements

Requirements for the A.B. Degree

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and four terms of physical education. As part of the 120-point requirement, the student must fulfill Basic, Distribution, and Major requirements described below.

Basic Requirements

ENGLISH	English A. Foreign students are required to exhibit a certain degree of fluency before enrolling in English A (see page 17).
SCIENCE	One science (two semesters), with laboratory. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory, and the College strongly suggests that they be taken concurrently. The following courses meet these requirements.
Astronomy-Geology	V1044-Geology V1022
Biology	Barnard 1-2
Chemistry	Barnard 1-2 or 1-30 C1403-C1404 wth C1503-C1504 or with C1503-C1507 C1407 with C1503 or with C1507 and Barnard 30 F1403-F1404 wth F1503-F1504
Geography	Barnard 1-2
Geology	V1021-V1022
Physics	C1021-C1022 F1003-F1004 V1003-V1004 V1103-V1104 V1305-V1306 W1003-W1004 W3001-W3002
Psychology	Barnard 5, 8, 17, 27, 30, 36, 56 (any two)

Degree Requirements

Students who wish to substitute a course sequence not given above, transfer students, and those with Advanced Placement should consult with department chairmen for guidance with respect to fulfilling the requirement.

FOREIGN LANGUAGE

Competence in an ancient or modern foreign language.

Exemption from the requirement may be obtained in the following ways.

1. CEEB score of 750 or higher;
2. Chairman's decision on AP score of 4 or 5;
3. Departmental examination.

Placement is determined in the following ways.

1. CEEB score 650-749	level 4
550-649	level 3
400-549	level 2
below 400	level 1

2. On the basis of previous college work for transfer students, in the level following that of the last satisfactorily completed semester course. Formal withdrawal and re-enrollment without credit may be required for students who are judged by the department to be unsuitably placed and in need of additional preparation or review.
3. By departmental examination if there is no CEEB score or previous college transfer work.

Credit is granted on the following basis.

1. For courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
2. No prior approval given for summer or transfer work undertaken as Barnard matriculant; on completion of other-college course, credit granted with department approval, or by examination, or on completion of next level at Barnard.
3. No duplicate credit granted for work repeated at same level.
4. No credit for the first semester of an elementary language unless a more advanced course is completed.

Fulfillment of this requirement is achieved by completion of the fourth sequential semester (or a more advanced course for which the fourth semester is prerequisite) of a course of three or more weekly hours in any foreign language. In the case of Latin, both Latin 3 and 4 (or their equivalents) must be completed. (Courses narrowly focused on conversation or composition or reading do not qualify.) It is recommended that the third and fourth semesters be completed at Barnard; elementary courses be completed in the freshman year; courses be taken consecutively without interruption; proficiency be established by the end of the junior year; re-enrollment without credit be required, whenever feasible, for students whose work in levels 1, 2, or 3 is graded D (the pass/fail option notwithstanding).

Exception to the general guidelines outlined above is made if the high school language of instruction was not English. Fulfillment in English is granted for foreign students who complete English A or one satisfactory year at Barnard. Fulfillment in English is granted in the high school language of instruction for students whose native language is English, e.g. French for alumnae of the Lycée Français.

Degree Requirements

In addition, fulfillment is granted for the following special situations. A sequence which includes Italian V1301, V1302, and one year of literature will also qualify. Completion of Spanish 6 will be sufficient for students of Hispanic background. Because of curricular differences, students who as Barnard matriculants complete the third or fourth semester of French or German outside the Barnard departments are required to take a departmental examination for placement or fulfillment.

Most students satisfy the requirement in French, Spanish, Hebrew, German, Russian, Italian, Chinese, Latin, or ancient or modern Greek, but other languages taught in the University are also acceptable. The student who wishes to study a language not offered at any division of the University should consult the chairman of the Barnard Language and Literature Committee.

Distribution Requirements

Completion of six semester-courses of three or more points outside the major department, to be distributed among three or more of the categories below (i.e., no more than two semester-courses in any single category).

- 1. FINE ARTS** Art History; history or literature of Music; Dance 65, 66.
- 2. LITERATURE** Any literature written in the original language (i.e. not literature in translation).
- 3. OTHER HUMANITIES** Philosophy; Religion (other than history of religion courses); Oriental Humanities; Readings in the Humanities; Medieval and Renaissance Studies; Humanities C1001-C1002; Classical Literature 32, V3123.
- 4. HISTORY** History; Oriental Civilization; history of religion courses (Religion V2607, V2610, V2600, V2620, V2630, V3201, V3301, V3303, V3202, V3210, V3330, V3333, V3402, V3404, V3405, V3406, V3409, V3500, V3501, V3503, V3608, V3611, V3613, V3635, V4302); American Studies; European Studies 2.
- 5. OTHER SOCIAL SCIENCES** Anthropology; Economics; Geography (other than Geograph 1, 2, W1005, or W1006); Health and Society; Linguistics; Political Science; Sociology.
- 6. MATHEMATICS** Mathematics; Computer Science W3203, W3261, W4203, W4241, W4242, G4801.

Major Requirements

The number of required semester-courses for the major depends on the major chosen (see individual department curriculum statements).

The student registers her chosen major with the Office of the Registrar normally in the second term of the sophomore year. The major may be chosen from any listed in the Barnard Catalogue. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping of courses. If either of the fields qualifies for the Distribution Requirement, two of the courses in one field may count toward that requirement. A combined or a special major may be designed in consultation with the chairmen of the appropriate departments and with the approval of the Committee on Programs and Academic Standing.

Degree Requirements

Electives

Apart from fulfilling the Basic, Distribution, and Major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser.

Physical Education Requirement

Four terms of physical education are required, with two semester-courses to be taken in the freshman year and two additional semester-courses during the years following. Transfers are required to complete two semester-courses of physical education beyond the freshman year. The physical education requirement is in addition to the 120 academic-point requirement and is graded on a pass-fail basis.

Length of Residence

Students are expected to be registered full-time for four years. Transfer students must complete at least 60 points and two years in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a student to complete her work for the degree while registered **in absentia**, with the permission of the Committee on Programs and Academic Standing.

Requirements for Transfer Students

Courses completed at other accredited colleges and universities may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar, and the student is notified of the evaluation by mail. Transfer students are asked to submit catalogues and course descriptions with their requests for transfer credit.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement in proportion to progress toward the degree at the previous institution. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not credited unless or until the second term or a more advanced course has been satisfactorily completed. Summer work is not included in initial credit estimates. Transfer students may apply for credit for previous summer courses under the regulations governing Summer Study (see page 51).

To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms and must complete at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as basic and distribution requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 44). Transfer students are eligible for Honors when both overall and Barnard averages meet the required academic standards.

Degree Requirements

Classification of Students

Students are classified as follows:

MATRICULATED:	Points completed
FRESHMAN	fewer than 24
SOPHOMORE	24-51
JUNIOR	52-85
SENIOR	86 or more
UNCLASSIFIED	Transfer students who have not yet been assigned credit

NONMATRICULATED:

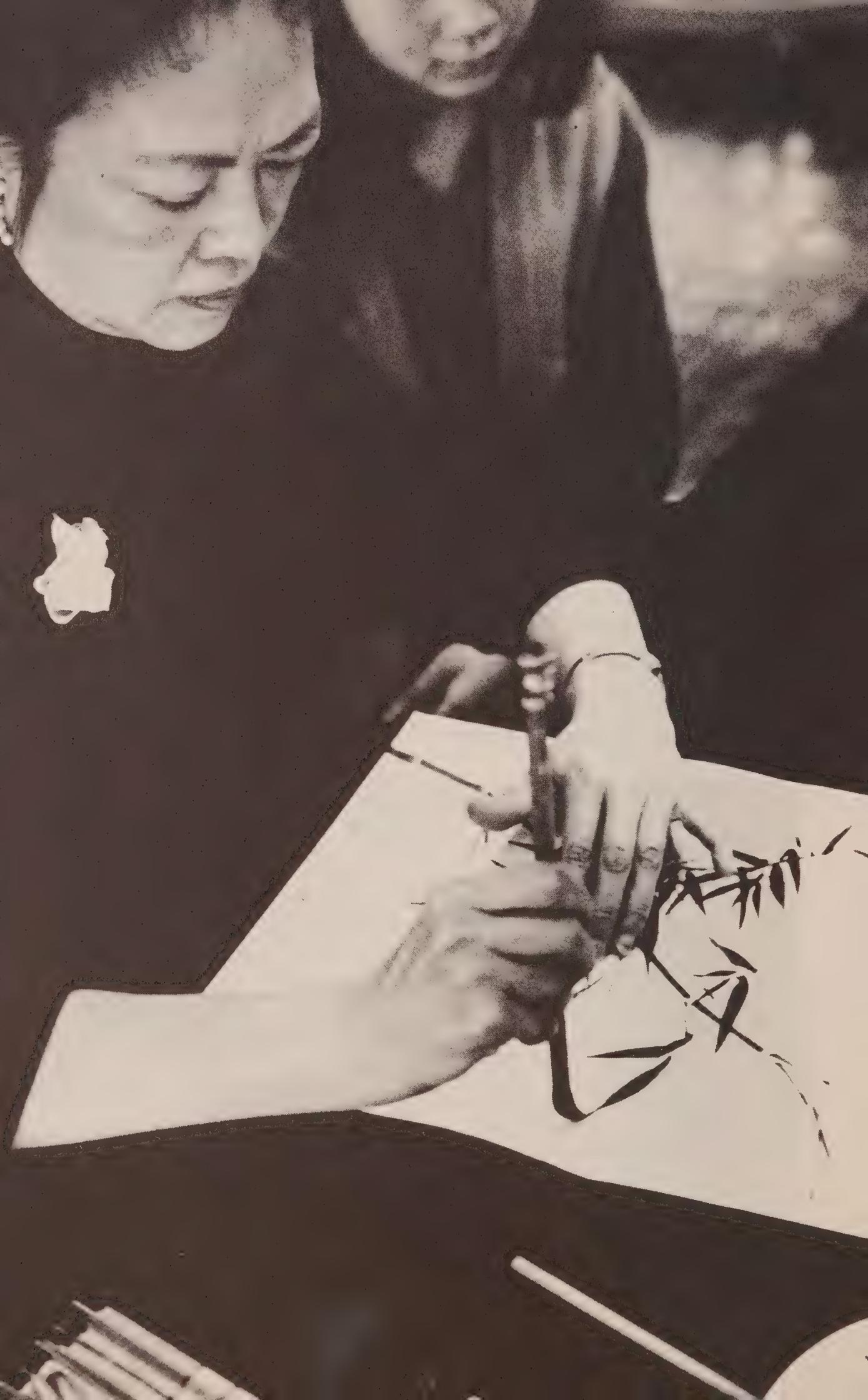
- Other college degree candidates
- Barnard alumnae auditing courses
- Any other student who is not a degree candidate
- Barnard alumnae taking courses for credit

A degree candidate (i.e., student who is matriculated) may not change her status to nonmatriculated.

Filing of Diploma Name Cards

The Diploma Name Card, available at the Office of the Registrar, is the student's official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October and January. The filing of the card sets in motion the processing of the student's academic records in preparation for graduation. It is the student's responsibility to file the Diploma Name Card before published deadlines (see College Calendar, page 6). Graduation ceremonies are held in January and May.





VIII. Other Curricular Information

Minor

The selection of a minor field of study is optional, requires at least five courses which total a minimum of 15 points, and may be designated by any student having a single major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chairman. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected is within one of the six that qualify for the requirement.

Senior Scholar Program

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as "Senior Scholar" on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than nine semester courses on the 35-course system or 30 points on the 120-point plan. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals, including writing projects, government internships, and art projects.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean, who is Coordinator of the Program, in her junior year. Before the beginning of the senior year, the student should have completed all basic and distribution requirements for the A.B. degree. The student's written application for the Senior Scholar Program is submitted to the Committee on Instruction by the Coordinator and is subject to the approval of the Committee. The deadline for application appears in the College Calendar (see page 6).

For financial assistance in carrying out the project, the student may apply separately for a student research grant.

Other Curricular Information

Program Planning for Students Interested in Medicine or Dentistry

The basic premedical and predental requirements are one year of biology with laboratory (Biology 1 and 2); one year of inorganic chemistry with laboratory (Chemistry 1 and 32); one year of organic chemistry with laboratory (Chemistry 30, 31, and 28); one year of physics with laboratory (Physics V1003-V1004 or Physics V1103-V1104); and two semesters of English. Highly recommended courses, which are required by some schools, are two terms of calculus or other college-level mathematics and one additional inorganic laboratory (Chemistry 38 or Chemistry 40).

Students should become familiar with the most recent edition of *Medical School Admissions Requirements*, an annual publication of the Association of American Medical Colleges, and Barnard's own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (Optometry, Podiatry, Physical Therapy, and Public Health) as well as Medicine and Dentistry.

Pursuing a major in the sciences is not necessary for premedical students provided they include the above required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry (i.e., in most instances the junior year) at which time students are advised to take the Medical College Admissions Test which is normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

All students who are interested in the health professions should consult their class advisers as early as possible and should start a file in the Pre-Professional Office by the junior year at the latest. Applications for the standardized tests, school catalogues, and other relevant information are available in 105 Milbank.

Program Planning for Pre-Law Students

There are no specific course requirements for entry to law school, nor is there any specific recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision, and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the *Pre-Law Handbook*, an annual publication of the Association of American Law Schools. Copies can be used in the Pre-Professional Office, 105 Milbank, which also collects law school catalogues and other relevant information.

Pre-Law students are encouraged to make themselves known to the Pre-Professional Office in the junior year or before. The LSAT should be taken in June or October of the year prior to expected entry to law school; of these, the June test is recommended because it allows for better planning. Applications for the LSAT and for the Law School Data Assembly Service (a required transcript analysis procedure) arrive in April each year and can be picked up in 105 Milbank any time thereafter.

Program Planning for Students Interested in Journalism, Architecture, Social Work and Business

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Pre-Professional Office, 105 Milbank, and in the Office of Career Services, 11 Milbank.

Other Curricular Information

Credit for Summer Study

Students are expected to complete the work for the degree in eight academic terms. Because Barnard does not offer courses during the summer, the granting of course credit for summer courses taken at other accredited institutions is treated as transfer credit, with some additional regulations. The maximum number of courses that can be credited toward the degree for **course credit** is four, subject to the approval of the Committee on Programs and Academic Standing. Although students cannot receive course credit for more than four summer courses totaling a maximum of 16 points, they can be **exempted from or placed out** of degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard Placement Examination. The full regulations on credit for summer study are available at the Office of the Registrar and are listed on the Application for Approval of Summer Session Courses. The student may find out in advance whether the courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting it to the Office of the Registrar well before the end of the spring semester. The application may also be retroactive. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than two one-semester courses may be counted for one summer session.
2. To be eligible for credit, courses normally must be of six weeks' (or more) duration, and 3 points (or more).
3. Credit can be granted only for a grade of C or better. P (Pass) is not acceptable.
4. **Grades for courses taken in summer school are not included in the cumulative grade point average.**

Study Abroad

Several options for study abroad are available to Barnard students.

Under the auspices of **Reid Hall in Paris**, several semester-long and full-year programs are offered. Semester-long Institutes include intermediate and advanced courses in French language, literature, and civilization; fine arts and architecture; and sociology and ethnography of French society and culture. The year-long program combines classes in the French university system with research directed by a scholar in the student's chosen field. The majority of applicants to Reid Hall are not French majors, but a strong background in French is required for year-long programs. Further information may be obtained from the chairman of the French Department or in the Office of the Dean of Studies. To receive degree credit for courses taken at Reid Hall, the approval of the Committee on Programs and Academic Standing is required on a special form available at the Office of the Registrar, 107 Milbank.

Barnard participates in the program of the Intercollegiate Center for Classical Studies in Rome. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the distribution requirements.

Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are available, without fee, to graduates of the College.

Course credit for courses taken at institutions abroad is treated as transfer credit (see page 46).

Other Curricular Information

Study at Jewish Theological Seminary

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of her major department chairman. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 46 for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult advisers in both institutions, and must be separately admitted to each.

Qualified Barnard students may request housing at the Seminary. Students who enroll in the Seminary College will be subject to Seminary tuition charges. Seminary College students may also apply to the Barnard Admissions Office to become special students or to fulfill the requirements for the A.B. degree at Barnard.

Double and Joint Degree Opportunities

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International Affairs, School of Engineering, and Law School. Details on specific programs are given below.

School of International Affairs. Master of Arts in International Affairs.

Barnard College and the School of International Affairs offer a joint program leading to the A.B. degree at the end of four years and the Master of Arts in International Affairs (M.I.A.) after one additional year.

Application to this program is made in the junior year, although it is advisable to consult an adviser at Barnard College as early as possible to plan a suitable program. Admission to the joint program does not constitute automatic admission to the School of International Affairs. The student in the program will apply for admission to the School of International Affairs in the fall semester of her senior year. Among other criteria, final admission depends upon the applicant's receiving the A.B. degree from Barnard with an approximate 3.5 grade point average.

A Barnard student in the program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the School of International Affairs may be used to fulfill major requirements only with the written permission of the chairman of the department in which the student is majoring.

A Barnard student admitted to the program is required to take Economics 33 and 35 or their equivalents by the end of the junior year, if possible, and in the junior and/or senior years, four courses from the core curriculum of the School of International Affairs. In the fifth year of the program, a student takes 30 points of course work at the School of International Affairs and completes other requirements as set forth by the School.

Further information may be obtained from the Bulletin of the School of International Affairs and from the Office of the Dean of Studies at Barnard.

Master of Public Administration

Barnard College and the Graduate Program in Public Affairs and Administration offer a joint degree program leading to the A.B. degree at the end of four years and the Master of Public Administration (M.P.A.) after one additional year.

Other Curricular Information

Although application to the program is made in the junior year, it is advisable to consult the Program Director, Professor Demetrios Caraley, 402 Lehman, as early as the sophomore year to plan an appropriate undergraduate program. Admission to the joint program does not constitute automatic admission to the Graduate Program in Public Affairs and Administration. The student in the joint program applies for admission to the Graduate Program in the Autumn Term of her senior year. Final admission is conditional upon the applicant's receiving the A.B. degree from Barnard with an approximate grade point average of 3.5.

A Barnard student in the joint program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the Graduate Program may be used to fulfill major requirements only with the written consent of the chairman of the department in which the student is majoring. Political Science G6201, *The National Governing Process*; Political Science G8232, *Colloquium on Urban Politics, Policy-Making and Administration*; Public Affairs U8200-U8201, *Administrative Management*; U8213-U8214, *Colloquium on Policy Analysis*; and Public Affairs U6310-U6311, *Quantitative Techniques in Policy Analysis and Public Administration*, constitute an eight-course core which must be completed by the end of the fourth year. Courses in economic analysis such as Economics W4801, *Economic Setting for Public Policy-Making*; Economics 34, *Intermediate Economic Theory*; or Economics W3861, *Taxation and Government Expenditures* and Economics W3862, *Government Budgeting, Public Debt, Intergovernmental Relations, and Fiscal Policy* are strongly recommended. An internship, usually during the summer between the fourth and fifth year, is also required. In the fifth year of the program a student completes at least 30 points including specialization requirements.

Further information may be obtained from the Program Director or in the Office of the Dean of Studies.

Law School

Applications are available for a small number of Barnard students to attend the Law School after the third year of course work at Barnard, under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.). All course work completed at the Law School is credited toward the law degree, and Barnard accepts a portion of it toward the A.B. degree. The students must have fulfilled the graduation requirements for Barnard by the time they receive their law degree.

At the end of the sophomore year, students with grade point averages of 3.5 or above who are interested in this program should make themselves known to the Dean for Pre-Professional Students in 105 Milbank.

School of Engineering

The School of Engineering and Applied Science and Barnard College offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, course work in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses are taken in the Engineering School. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the basic, distribution, and major requirements is required for the Barnard A.B. degree.

Other Curricular Information

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken at Barnard, after which the student applies for admission to the School of Engineering and Applied Sciences. The remaining two years of engineering study are completed there.

Details on specific entrance requirements are available from the Office of Admissions of the School of Engineering and Applied Science and from the Office of the Dean of Studies at Barnard. Further information about the engineering program and the advanced degrees may be obtained in the Bulletin of the School.

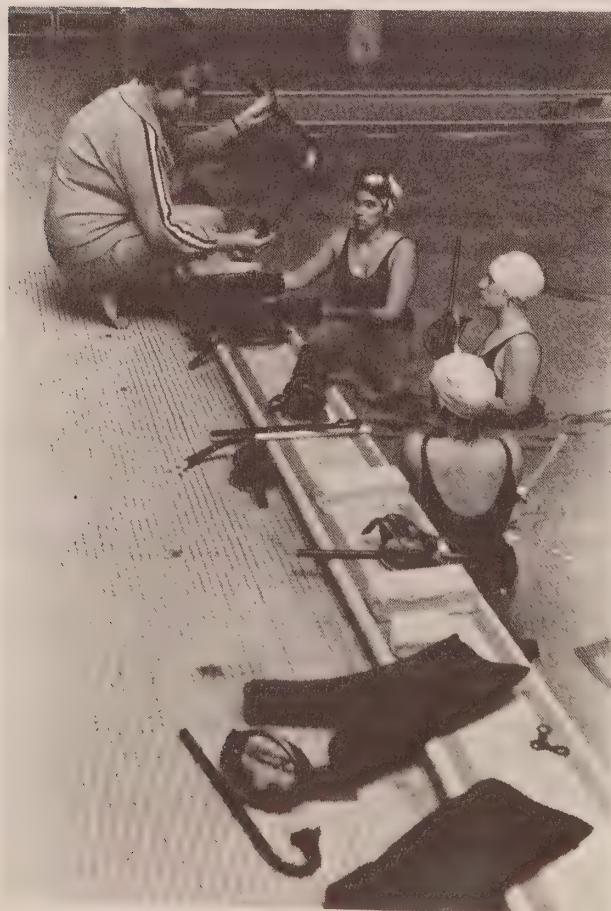
AUDITING

Student Auditing

Matriculated students may audit courses in special instances by arrangement with the instructor. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's transcript; they are **not** graded; and they may not be subsequently converted to credit courses.

Alumnae Auditing

Many Barnard courses are open to alumnae for auditing. No credit is given and no charge is made. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.





IX. Registration

REGISTRATION PROCEDURES

Registration for New and Continuing Students

Instructions and materials for registration, enclosed in individual packets, are available to students in McIntosh Center on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar, page 6. Permission to register may be refused to students who do not observe the deadline for registration. A late fee will be charged those students who have permission to register late (see page 22).

Bills for tuition and fees (see page 21) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar, page 6. In addition, any outstanding debts to the College, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see page 58), which must be completed by the published deadline (see College Calendar, page 6). The filing of the program form completes the registration process.

Registration for Resumed Education Students

Resumed education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. They obtain their registration information and materials from the Director of Advising and Services for Resumed Education Students in the Dean of Studies Office during the regular registration period (see College Calendar, page 6). The Director of Advising and Services for Resumed Education advises resumed education students on their academic programs. Resumed education students are subject to regular registration deadlines and payment of late registration fees.

Registration

Registration for Columbia University Courses

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; all undergraduate courses listed in the Columbia College bulletin do not need special approval unless so indicated in the course description. Other courses **not** cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are sectioned prior to registration. Barnard students wishing to register in such courses must take part in the sectioning procedure.

Only students enrolled in the Education Program are eligible to take the Teachers College courses cross-listed in the Catalogue. All Teachers College courses which are **not** cross-listed require approval of the Committee on Programs and Academic Standing by submission of a petition form during the first week of the term, and also require payment of additional Teachers College fees.

STUDENT PROGRAMS

Program Filing

The list of courses for which the student is registered each semester is known as the student's **program**.

New freshmen and transfer students receive program forms with their registration and orientation materials. Continuing students file tentative programs the previous semester, which are then returned to them for completion with their registration materials. Additional forms are available at the Office of the Registrar.

After consultation with her academic adviser, the student files her completed program, signed by her academic adviser, at the Office of the Registrar before the published deadline. Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar, page 6). A fee is charged for programs filed late (see page 22).

Schedule of Classes and Room Assignments

Class times and room numbers are published in the **Schedule of Classes and Room Assignments**, available during registration. Final information on changes in class times and rooms is posted on the blackboard near the entrance to Milbank Hall.

Sign-Up Sheets

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on "sign-up" sheets which are posted outside departmental offices and which list criteria for course enrollment.

Section Changes

A change from one section to another of a course after program-filing requires the approval of the instructor of the new section and the class adviser on the appropriate form to be submitted to the Office of the Registrar. Prior to program-filing the change should be made on the program form itself with departmental approval.

Registration

Adding Courses

Courses may not be added after the deadline for filing academic programs (see College Calendar, page 6). Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signatures on either the program or add form of the class adviser and the major adviser.

Dropping Courses

Courses may be dropped by submission of an Application to Drop a Course or Section, available at the Office of the Registrar. The form requires the signature of the class adviser and the major adviser, and must be returned to the Office of the Registrar before the deadline published in the College Calendar (see page 6). Courses dropped before the deadline will not be recorded on the permanent transcript. After the deadline, a course dropped will appear on the permanent transcript with the notation W (Withdrawal).

Attendance

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete course work or to take final examinations.

A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

Barnard is a non-denominational college which does not schedule religious holidays in the academic calendar, although every effort is made to avoid the dates of major religious observances in the scheduling of class meetings, deadlines, and examinations. It is expected that students who miss classes due to observance of religious holidays will make individual arrangements with their instructors to make up any work missed as a result of absence.

Withdrawal During the Term

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a Notice of Intention to Withdraw form (blue copy) to the Office of the Dean of Studies with the signature of the parent or guardian before the final examination. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of WF. For information on partial refund of tuition, see page 23.

Withdrawal Between Terms and Readmission

A student who plans to withdraw from the College after the completion of the semester should file a Notice of Intention to Withdraw form with the Office of the Dean of Studies.

A student in good health who leaves with her record complete and who is in good standing may re-register within one year of the date of withdrawal without reapplying through the Office of Admissions. No readmission fee is charged a student who submits a written confirmation of her intention to return to the Office of the Dean of Studies by April 1 for the Autumn term or November 1 for the Spring term. After an absence of one year a student must file readmission forms through the Office of Admissions and pay readmission fees (see page 18).

Exceptions to College Regulations

Requests by students for exceptions to college regulations governing the award of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.

X. Examinations

Language Placement Examinations

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB) score of 750 or above, or, for transfer students, by having completed acceptable qualifying language courses.

Transfer Students

A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made by the Director of Transfer Services, according to the provisions of an established scale. A transfer student who has no CEEB score or previous college language courses, must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credits.

Freshman Students

Freshman students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Freshman Program Director advises all new freshmen of their language requirements.

Summer School Language Courses

Students, other than incoming transfer or freshmen students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination, or secure departmental approval to receive degree credit and enter a higher level.

Examinations

Any student who has been placed according to her CEEB score may take a placement examination if she wishes, but she must then accept that placement, even if it is lower than her previous placement.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Applications for Language Placement Examinations are available at the Office of the Registrar; the examination dates are published in the College Calendar, page 6. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

Departmental Placement Examinations

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations, for example in the Mathematics and Physics departments. Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

Make-Up Examinations During the Semester

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness from the College physician or acceptable evidence of other extenuating circumstances.

Final Examinations

There are no class meetings on the last class day before the final examination period in each term. This interval may be extended for any class, at the option of the instructor, to the full week prior to the examination period. The dates for final examinations, given at the end of each semester, are published in the College Calendar, page 6. Exact times and room numbers for individual examinations are posted on the bulletin board at the Office of the Registrar the week before final examinations.

Deferred Final Examinations

Deferred final examinations for Barnard courses, given in September and January (see College Calendar, page 6), are open only to those students whose work is satisfactory and who were absent from the regular examinations for reasons of illness or emergency. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health should be reported to the Office of Health Services in person or by telephone on the day of the examination.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Office of the Registrar by designated dates (see College Calendar, page 6). A payment of a \$10 handling fee for each examination must accompany the application.

Arrangements for deferred examinations in other divisions of the University must be made by the student with the instructors, and should be completed during the term following registration for the course.

Examinations

Examinations for Disabled Students

Individual arrangements are made for disabled students unable to take examinations in the usual manner. A disabled student who anticipates the need for a special examination procedure should consult her instructor(s) and the Dean for Disabled Students at the beginning of the semester.

SAT, URE, GRE, and LSAT Examinations

Information and application forms for the Scholastic Aptitude Examination, the Undergraduate Record Examination, the Graduate Record Examination, the Law School Admissions Test, and other specialized examinations are available in the Office of the Dean of Studies. Undergraduate and Graduate Record Examinations are scheduled twice a year at Barnard for graduating seniors (see College Calendar for dates, page 6) in addition to the regular testing dates at Columbia University.



XI. Grading and Academic Honors

Grading system

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades for those courses. The system used at Barnard is as follows:

A+	
A	Excellent
A-	
B+	
B	Good
B-	
C+	
C	Satisfactory
C-	
D	Poor
F	Failure
P	Passed without a specific grade on student's election of P/F option
P*	Passed in a course for which only a grade of P or F is allowed
I	Incomplete
X	Absence from final examination
NC	No credit
Y	Two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
WF	Withdrawal from course without formal notification to Registrar

Pass-fail grades are recorded for all students in certain courses, e.g., in physical education. Pass-fail grades for individual students are subject to regulations described below.

Regulations that apply to grades of I (Incomplete) are outlined on page 67.

Grading and Academic Honors

Grades of I or X that were recorded in 1980-81 or before will be changed to NC (no credit) if the missing work is not submitted and the portion of the course work that had been completed was passing; beginning 1981-82 the unsubmitted work will be calculated as zero in averaging the final grade. If the work completed was not passing, the grade will be changed to F.

In the computation of grade point averages, marks for courses are awarded points on the following scale:

A+	= 4.3	B-	= 2.7
A	= 4	C+	= 2.3
A-	= 3.7	C	= 2
B+	= 3.3	D	= 1
B	= 3	F	= 0

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with grades of D or above. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard only with the permission of the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D may not be counted toward the major requirement.

Grade Reports

Grade reports are sent out at the end of the Autumn semester to the student's campus address. At the end of the Spring semester, a cumulative grade report of all the student's work at Barnard is sent to the home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parents or guardian by filing a permission card with the Registrar. Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent. If the student wishes additional unofficial transcripts a charge of \$2 per copy will apply (see Transcripts, page 67).

Pass-Fail Option

A student may request a course to be graded under the pass-fail option by submitting a Request for Pass-Fail form to the Office of the Registrar before the deadline published in the College Calendar, page 6. The forms are available at the Office of the Registrar about two weeks before the deadline. Under the pass-fail option the student is held responsible for fulfilling all the course requirements. A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar.

Some courses record pass-fail grades for all students enrolled, e.g., physical education.

At least 96 of the 120 points required for graduation must be assigned letter grades, including English A and all courses designated to count toward the major (and minor, if the student has designated a minor). The pass-fail option does not apply to these courses. No more than six of the courses credited to the degree may be assigned a grade of P.

No limitation is placed on the number of pass-fail grades which may be recorded in a single term, except those rules which apply to the Dean's List and to eligibility for financial aid.

Grades of P are not included in the grade point average. A grade of F received under a pass-fail option is computed as zero in the grade point average.

The request for a course to be graded under the pass-fail option is **irreversible**. Subsequent change to a letter grade will not be allowed.

Grading and Academic Honors

Incompletes

A student may for compelling reasons arrange to take a grade of I (Incomplete) by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incompletes is the last day of the Final examination period.

There are two Incomplete options. The "early incomplete" requires submission of unfinished work soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next Autumn Term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incompletes form available at the Office of the Registrar. Students who have the permission of their instructors to take grades of Incomplete are strongly encouraged to use the form, which is a written guarantee of the terms set forth in it by the student and the instructor.

A student who has more than two Incompletes outstanding will not be allowed to register for a new term.

Dean's List

A Dean's List, which contains the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. Eligibility is based on all the letter grades, a minimum of three for a total of at least 12 points in each term, exclusive of those courses receiving grades of P.

Transcripts

Transcripts are ordered by the student or alumna by written request to the transcript secretary in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following information: student's name (including maiden and married names), dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a \$2 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the \$2 fee. There is no charge, however, for a transcript sent to a division of the University.

Honors

The Faculty awards honors to students who complete work for the degree with distinction (cum laude), with high distinction (magna cum laude), and with highest distinction (summa cum laude). Students whose records include study at other institutions will be eligible for honors if both the overall and the Barnard grade point averages meet this requirement. Departmental honors are awarded to a percentage of eligible graduates who are nominated by their departments for distinguished work in their major fields. The final selection is made by the Committee on Honors.

Phi Beta Kappa

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Under the 35-course plan, eligibility for election as a senior will require thirty completed courses. Under the point system, junior election will require a minimum of 86 completed points and senior election, 102. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Studies.

MONITOR CARD



XII. Courses of Instruction

The Curriculum

A liberal arts education at Barnard is composed of a broad distribution of requirements with intensive study in a departmental or interdisciplinary major. The curriculum is revised from time to time within the traditions of the liberal arts and in recognition of the growth of knowledge. At present, twenty-five departments and eight interdisciplinary programs offer majors, and students may also elect minors if they choose. The College reserves the right to withdraw or modify any course or program or to change the instructors as may be necessary. All academic programs listed are planned for 1981-1982, but their listing in this catalogue is not a guarantee of their availability in subsequent years.

Classes

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a program exceeding 18 points (see page 21 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with the most modern equipment, and computer facilities are available at Columbia.

Courses of Instruction

Course descriptions will be found in the following pages. Room assignments and all other registration information such as computer course numbers are published in a separate bulletin and distributed during registration.

Autumn term courses are followed by an **x**; Spring term courses are followed by a **y**.

Courses of Instruction

Indivisible **Barnard** courses which run throughout the year are marked with a hyphen between the numerals (e.g., Music 1x-2y). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and department chairman and the approval of the Committee on Programs and Academic Standing. The first semester of elementary language, whether taken at Barnard or elsewhere, does not receive degree credit unless the second semester is completed.

Divisible Barnard courses which run throughout the year are marked with a comma between the numerals (e.g., Geography 1x, 2y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring semesters (Economics 1x, 1y) and may be taken in either semester.

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. Hyphens and commas between these course numbers do not necessarily have the connotations described above for Barnard courses.

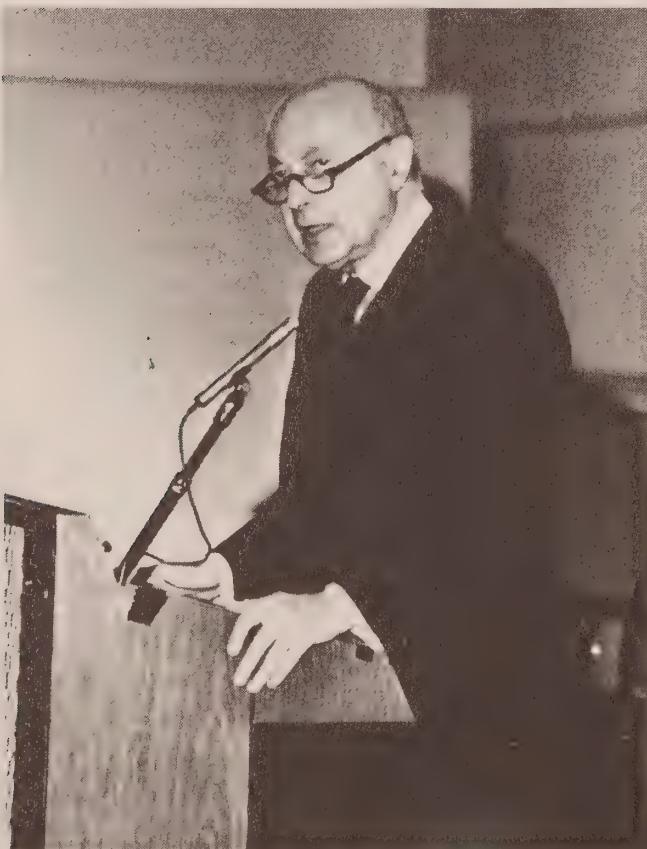
- C — Columbia College
- F — School of General Studies
- G — Graduate School of Arts and Sciences
- R — School of the Arts
- V — Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)
- W — Other inter-faculty course

The level of the course is generally as follows:

1000-3999 Undergraduate

4000-4999 Advanced undergraduate and first-year graduate

5000-8999 Graduate, normally not open to undergraduates



American Studies

Office: 412 Lehman Hall

Telephone: 280-2159

This program is supervised by the Committee on American Studies:

Professor of History

Annette K. Baxter (Chairman)

Professor of Art History

Barbara Novak

Associate Professor of History

Charles S. Olton

This program helps students to develop understanding of American civilization considered as a whole. Specialized studies in all fields of learning dealing with American subject matter are included in the program, and the impact of these studies is reflected in the work of the senior seminar. Faculty members directing the Program are specialists in American cultural, literary, and women's history; American art history; early American history; American political and legal history, and foreign relations, and mass media. All are committed beyond their individual specialties to an interdisciplinary approach to the study of American history and culture.

REQUIREMENTS FOR THE MAJOR

In order to acquire a broad understanding of American civilization and acquaintance with various methods of studying it, a student who majors in American studies must take a program, planned in consultation with her major adviser, consisting of 12 courses. There are no prerequisites for entrance to the Program or to American Studies 1,2. Students are advised to complete American Studies 1,2 before taking American Studies 3,4, but exceptions are allowed. Courses taken in other departments in fulfillment of the major requirements may be taken in any sequence.

The 12 courses must represent the following distribution:

- 2 courses in ancient, medieval or European history in any combination;
- 2 courses in American history;
- 2 courses in the social sciences dealing with American subject matter;
- 2 courses in the humanities dealing with American subject matter;
- American Studies 1,2 (in the junior year); and
- American Studies 3,4 (in the senior year).

A research essay prepared in the senior seminar is required.

REQUIREMENTS FOR THE MINOR

No minor is offered in American Studies

American Studies

COURSES OF INSTRUCTION

1x, 2y. Seminar on American Culture and National Character.

An interdisciplinary approach to the understanding of America, drawing upon history, literature, art, women's studies, black studies, popular culture, oral history, folklore, and other sources. The first semester examines classic 19th and 20th century responses to American culture and the second semester examines the changing spectrum of contemporary scholarship on American society, from colonial times to the present. Guest lecturers augment the course.—1: A. Baxter; 2: To be announced.

American Studies majors are required to take both semesters. Other students may take either semester. Permission of the instructor required. Enrollment limited to ca. 20 students.

4 points.

1: Tu 2:10-4:00.

2: Th 2:10-4:00.

3x-4y. Senior Seminar.

Individual research on diverse aspects of American civilization, in consultation with the instructor, and presentation of results in the form of the senior essay.—A. Baxter.

Enrollment limited to senior majors.

4 points.

W 2:10-4:00 with frequent conferences.

Ancient Studies

Office: 216 Milbank Hall

Telephone: 280-2852

This program is supervised by the Committee on Ancient Studies:

Assistant Professor of Art History (Columbia)
Louise Bordaz (Representative for General Studies)

Professor of Classics (Columbia)
James A. Coulter (Representative for Columbia)

Associate Professor of Classics
Lydia Lenaghan¹ (Representative for Barnard)

Assistant Professor of Classics
Helene P. Foley (Acting Representative for Barnard)

Professor of History (Columbia)
William V. Harris

Professor of Religion
Elaine Pagels

¹Absent on leave, 1981-82

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity is offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

A total of 9 courses are required in the major, including

4 courses in one geographic area or period;

at least the first semester of Ancient Studies V3998, *Directed Research in Ancient Studies*, with presentation of written results; and

the appropriate sequence in ancient history.

In some cases, a senior seminar in one of the departments may be substituted for Ancient Studies V3998, V3999. Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered to gain credit for the first year.

REQUIREMENTS FOR THE MINOR

No minor is offered in Ancient Studies.

COURSES OF INSTRUCTION

A list of relevant courses of instruction offered in 1981-1982 may be obtained from the Representative for Barnard.

Anthropology

Office: 411D Milbank Hall

Telephone: 280-5417

Professors

Morton Klass, Abraham Rosman (Chairman), Paula G. Rubel, Joan Vincent¹

Assistant Professors

Sam Beck, Nan A. Rothschild

Other officers of the University offering courses listed below:

Professors

Alexander Alland, Jr., Morton H. Fried, Ralph Holloway, Robert Murphy,² Elliott P. Skinner, Ralph Solecki

Assistant Professors

Frank Findlow, Leith Mullings, Katharine Newman, Hanni Woodbury

¹Absent on leave, 1981-82

²Absent on leave, Spring Term

Anthropology is the study of the biological and cultural development of the human species, and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, law, labor organization, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many nonacademic needs both in American society and in international organizations.

The Department issues periodically a Barnard Anthropology Newsletter, which is sent to majors, minors, and students in related programs. It provides accounts of meetings, news of coming events, Anthropology Club reports, and announcements of general concern to the Department. Copies of a Barnard Anthropology Department Calendar are also available, and all students are urged to visit 411 Milbank regularly and to peruse the noticeboards for class, activity, and job notices.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements.

REQUIREMENTS FOR THE MAJOR

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. The student's program should be designed in consultation with her adviser as soon as possible after the declaration of the major. Regular and frequent meetings with adviser are encouraged.

Anthropology

Ten courses are required for the major, including

- V 1001 *Introduction to the Study of Man;*
- V 1002 *Introduction to Cultural Anthropology;*
- V 3011 *Social Organization;*
- V 3041 *History of Anthropological Theory;*

2 colloquia; and

4 other Anthropology courses, one of which will be an Area course (e.g., Peoples of the Middle East, Peoples of Europe, Peoples of Africa, Peoples of Southeast Asia).

Students majoring in Anthropology are required to submit a substantial research paper or essay. Such a paper may have its origin in a colloquium (or in another course acceptable to the department), and be completed in 71 or 72; or it may arise out of research in 67, 68 *Ethnographic Research in New York City*; or it may be based on papers submitted for two colloquia, the papers of which are to be presented to the department, along with introductory and culminating statements that make of them an entity; or it may be the result of a year's independent research in 99.

REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses:

- V 1001 or V 1002;
- V 3041;
- one area course; and
- two other courses.

The department also cooperates with related programs such as Foreign Area Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology (e.g. Architecture). Arrangements for combined, double, joint, and special majors are made in consultation with the chairman.

For a Premedical Concentration in Anthropology Courses: premedical students who wish to concentrate in anthropology are required to take 15 points within the department. Students should seek the advice and approval of the department chairman.

COURSES OF INSTRUCTION

BASIC COURSES

V 1001x, V 1001y. Introduction to Human Origins.

Human biological and cultural evolution, as studied by physical anthropologists and archaeologists.—Staff.

3 points.

x: Section I Tu Th 1:10-2:25. M. Fried.

Section II M W 2:40-3:55. M. Klass.

Discussion hours to be arranged.

y: Tu Th 6:10-7:25. A. Allard.

Discussion hours to be arranged.

V 1002x, V 1002y. Introduction to Culture.

Comparative and functional analysis of culture; habitat, technology, and economy, social and political relations; ideology — magic, religion, and science; art, music, and literature; life cycles and personality.—Staff.

3 points.

x: M W 1:10-2:25. R. Murphy.

Discussion hours to be arranged.

y: Section I M W 1:10-2:25. M. Fried.

Section II Tu Th 9:10-10:25. A. Rosman.

Section III Tu Th 1:10-2:25. P. Rubel.

Discussion hours to be arranged.

Linguistics V 1101x, V 1101y. Introduction to Linguistics.

See Linguistics listing.

Sy. Freshman Seminar in Anthropology.

Inquiry into the purposes of anthropologists and the nature of anthropology. Specific topics for discussion are selected by the instructor.

Enrollment limited to 15 students.

Not offered in 1981-82.

4 points.

INTERMEDIATE COURSES

V 3002x. Political Anthropology.

The development and comparative study of political structure and government in non-western societies.—Instructor to be announced.

Offered in alternate years. Offered in 1981-82.

3 points.

Tu Th 9:10-10:25.

Anthropology

V 3004y. Introduction to Archaeology.

The history, goals, theoretical frameworks, research designs, and techniques and methods for conducting archaeological research. The relationship of archaeology to anthropology, art history, and classics.—Instructor to be announced.

3 points.

Tu Th 2:40-3:55.

V 3005x. Peoples of Africa.

Survey of African cultures, with intensive analysis of selected peoples.

Not offered in 1981-82.

3 points.

V 3006y. Peoples of Southeast Asia.

Selective survey of traditional and changing Southeast Asian societies; emphasis on cultural, social, and ecological dimensions of tribal and peasant life.—Instructor to be announced.

Offered in alternate years. Offered in 1981-82.

3 points.

M W F 9:00.

V 3007x. Peoples of Europe.

Intensive analysis of selected ethnographic studies reflecting cultural variation and change in European societies.—Instructor to be announced.

3 points.

Tu Th 2:40-3:55.

V 3008x. Ethnology of North American Indians.

Survey of tribes and culture areas of North America with intensive analysis of several ethnographies including several dealing with present-day urban adjustment.

Not offered in 1981-82.

3 points.

V 3009x. Peoples of the Middle East.

Survey of culture areas from North Africa to Pakistan, with intensive analysis of selected studies.—Instructor to be announced.

3 points.

M W 6:10-7:25.

V 3010y. Native South America.

Introduction to the peoples and cultures of native South America, including pre-history, ecology, social relations, belief systems, effects of the Spanish conquest, and the impact of modern change.

Not offered in 1981-82.

3 points.

V 3011x. Social Organization.

Institutions and organization of social life, particularly in non-literate societies; kinship and locality in the structuring of society.—Instructor to be announced.

Prerequisite: An introductory anthropology course.

3 points.

Tu Th 2:40-3:55.

V 3013y. Village India.

Study of the peoples and problems of the South Asian countryside. Contemporary ethnographies and community studies will be utilized in the examination of socio-economic relationships, religion, and culture change.

Enrollment limited to ca. 25 students.

Not offered in 1981-82.

3 points.

V 3014y. Peoples of East Asia.

Introduction to the contemporary societies of China, Japan, and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies.

Not offered in 1981-1982.

3 points.

V 3016y. Peoples of the Pacific.

Comparative analysis of the ethnographic setting of Polynesian, Micronesian, and Melanesian populations; emphasis on theoretical contributions achieved and current anthropological problems being considered by researchers in the area.

Not offered in 1981-82.

3 points.

V 3018x. The Development of Urbanism: An Archaeological Perspective.

Development and maintenance of prehistoric urban societies, drawing upon examples from both the New and Old Worlds; relationships between developmental processes, environmental exploitation, urban-rural interactions, and the internal dynamics and structure of the city itself.

Not offered in 1981-82.

3 points.

V 3020y. Men's and Women's Speech.

Cross-cultural and cross-linguistic investigation of differences among men's and women's speech patterns as these are exemplified in literature, ethnographic texts, and actual utterances by speakers in various social settings; study of differences on the phonological, lexical, syntactic, and discourse levels; relation between cultural and linguistic patterns; variation across speakers and in time.

Prerequisite: Course V 1001 or V 1002.

Not offered in 1981-82.

3 points.

V 3021x. Sex Roles in Cross-Cultural Perspective.

Consideration of cultural expectations about male and female behavior in non-Western and Western societies. Differences in the social, economic, religious, and political behavior of men and women in a variety of cultures. Belief about sex and the sexes as well as the presence or absence of sex antagonisms.—Instructor to be announced.

3 points.

Tu Th 9:10-10:25.

V 3024y. Changing Africa.

Major forces at work in contemporary Africa, and examination of changes that are taking place in the economic, social, political, educational, and artistic institutions of the emerging nation-states of that continent.—E. Skinner.

3 points.

Tu Th 10:35-11:50.

V 3025y. Law, Culture, and Society.

Survey of law and order systems in Western and non-Western societies. Examination of the kinds of social control problems that societies of different levels of complexity confront and the solutions that those societies forward. Forms of conflict behavior, methods of dispute settlement, and substantive law content.—Instructor to be announced.

Offered in alternate years. Offered in 1981-82.

3 points.

Th Th 4:10-5:25.

V 3027y. Culture and the Individual.

Development of personality in various cultural contexts: child-rearing and socialization; the role of personality theories in analyzing social systems and situations of culture change.—Instructor to be announced.

Permission of the instructor required.

3 points.

M W 6:10-7:25.

V 3029y. The Archaeology of the New World.

Survey of the prehistoric past of native American cultures from the time of the aboriginal settling of the New World by Asian immigrants to that of European contact; special emphasis upon the rise of the New World civilizations in Mexico and Peru and the processes leading to their development.—Instructor to be announced.

3 points.

Tu Th 7:40-8:55.

V 3032x. The Archaeology of the Old World.

Survey of the principal areas of cultural development in Europe, Asia, and Africa from the earliest beginnings of human culture to the dawn of first civilization.—Instructor to be announced.

3 points.

M W F 10:00.

V 3033x. Sociolinguistics.

Speech considered as a social activity; the speech community; socially motivated linguistic change; ethnography of speaking; regional and social dialects; sex linked speech; the strategic use of language in varying speech events; analysis of natural discourse.—H. Woodbury.

3 points.

M W 1:10-2:25.

V 3034x. Ethnolinguistics.

Linguistic categories and their relation to culture; systems of folk-classification and their analysis; linguistic representations of time, space and other systems of orientation; analysis of myths, stories, and other ethnographic texts; relationships between language and thinking.—H. Woodbury.

3 points.

M W 1:10-2:25.

V 3036x. Peasant Societies.

Introduction to pre-industrial agrarian social systems; patterns of community organization and the relationship between the community and the state.

Offered in alternate years. Not offered in 1981-82.

3 points.

V 3037y. Societies in Transition.

Analysis of the changes that have taken place in rural and urban societies since the nineteenth century with emphasis on cultural and institutional relations between localities, regions and states. Ethnographies from Europe, American and the Third World.—Instructor to be announced.

3 points.

M W F 11:00.

V 3038y. Ethnic Relations in Changing Societies.

Analysis and comparison of ethnic relations in settings of cultural pluralism with special reference to America, Europe and Third World countries.

Offered in alternate years. Offered in 1981-1982.

3 points.

Tu Th 6:10-7:25.

Anthropology-Women's Studies V3039x. Women in Third World Development.

Comparison of women's social and economic roles in both traditional and modernizing societies. Women's roles in the family, community and class structure will be discussed through a detailed examination of a series of ethnographies.—J. Lessinger.

Prerequisite: An introductory anthropology course or Women's Studies 11 or permission of the instructor.

3 points.

Tu Th 4:10-5:25.

Anthropology

V 3042x. The Anthropology of Religion.

Ideological systems of simple or preindustrial cultures; relations between religion and other aspects of culture.

Prerequisite: An introductory anthropology course.

Not offered in 1981-82.

3 points.

V 3044y. Symbolism.

The ordering of experience through symbols in various cultures. The symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner, and others.—Instructor to be announced.

3 points.

M W F 11:00

V 3100y. Urban Societies.

Evolution of cities: a cross-cultural view of kinds of urban formations; examinations within an anthropological context of various aspects of urban life.—L. Mullings.

3 points.

Tu Th 1:10-2:25.

V 3121x. Environment and Cultural Behavior.

Discussion of ecological studies in cultural anthropology, with special emphasis on making cultural practices intelligible by relating them to the material world in which they develop or occur.

Permission of the instructor required.

Not offered in 1981-82.

3 points.

V 3125x. Evolution of Subsistence Agriculture Systems.

Theories concerning the origins of agriculture and a comparative examination of extant agricultural systems; emphasis on the variation and flexibility of subsistence alternatives exhibited by selected groups.

Not offered in 1981-82.

3 points.

V 3128x. Medical Anthropology.

Examination of social and cultural factors as they relate to problems of health, illness, and medicine in the United States and in other societies.—L. Mullings.

3 points.

Tu Th 1:10-2:25.

V 3200y. Colloquium on Methods of Anthropological Research.

Analysis and application of various methods of anthropological research, including, among others, fieldwork procedures, the cross-cultural method, and approaches to model-building in anthropology.

Prerequisite: An introductory anthropology course.

Enrollment limited to 20 students.

Not offered in 1981-82.

3 points.

V 3201x. Introductory Survey to Biological Anthropology.

Human species in biological and evolutionary perspective with particular emphasis on the behavioral and morphological aspects of our evolution. Topics to be covered include evolutionary theory and basic population genetics, non-human primate behavior, fossil evidence for human evolution, human variation, and interactions of biology and culture.—R. Holloway.

3 points.

Tu Th 4:10-5:25.

V 3203y. Primate Behavior.

Introduction to the study of primates, emphasizing social behavioral patterns as adaptation within ecological constraints; primate taxonomy, fossil record, social behavior, uses and abuses of primate studies for understanding human evolution and behavior.—Instructor to be announced.

Prerequisite: Course V 3201 or permission of the instructor.

3 points.

M W 2:40-3:55.

W 3204y. Dynamics of Human Evolution

Introduction to human paleontology, particularly East African sites recently discovered, emphasizing how the fossil evidence relates to brain-behavioral evolution, sexual dimorphism, early hominid social behavior, etc.—R. Holloway.

Prerequisite: V 3201 or the permission of the instructor.

3 points.

M W F 9:00.

C 3830x. Colloquium: An Archaeological Perspective on Cultural Evolution.

A critical examination of theories dealing with the evolution of complex societies in prehistory. Topics include the development of urbanism, hydraulic agriculture, militarism, population pressure, and the role of religious ideology in the transformation from egalitarian to state-level societies.—Instructor to be announced.

4 points.

M 4:10-6:00.

W 4111x. Latin American Communities.

The kinds and distribution of small communities in Latin America, including peasant villages, Haciendas and plantations, and towns. Their relation to the larger society as well as their internal workings.—R. Wasserstrom.

3 points.

Tu Th 6:10-7:25.

Anthropology

W 4122x. Ecological Anthropology.

Introduction to the study of human ecology as a multi-disciplinary undertaking. Emphasis on making cultural practices intelligible by relating them to the material world in which they develop or occur.

Prerequisite: V 3121 or the equivalent.

3 points.

F 2:10-4:00.

W 4346x. Laboratory Techniques in Archaeology.

Training in general archaeological methods. Data recording techniques, preparation of reports, illustrations, etc. Should be taken simultaneously with W 4348x.—F. Findlow.

Enrollment limited to 15 students.

3 points.

F 1:00-4:00.

W 4347x. Economic Anthropology.

Approaches to the study of resource allocation: production, consumption, and distribution in tribal and peasant societies. Contemporary theoretical issues and selected ethnographic accounts.—M. Klass.

3 points.

M W 2:40-3:55.

W 4348x. Field Archaeology.

Introduction to archaeological techniques and methods of excavation.—R. Solecki.

Permission of the instructor required.

Approximately seven field sessions, supplemented by classroom work. Students must pay for their transportation and food in the field. Should be taken simultaneously with W 4346x.

3 points.

S 9:00-5:00.

W 4350y. Cultural Resource Management.

Discussion of laws and regulations concerning the preservation of national archaeological resources and the procedures of cultural resource management. Contribution that public archaeology makes to research in the discipline.—Instructor to be announced.

3 points.

Tu 1:00-4:00.

W 4352x. Museology.

Methods and procedures of artifact conservation, cataloguing and display. Use of collections for research purposes.—Instructor to be announced.

3 points.

Tu 1:00-4:00.

W 4354x. Archaeology of New York City.

The archaeology of Greater New York City and environs, from earliest Palaeo-Indian times to the early colonization of New York. Lectures illustrated from original research material, with visits to museums, and field trips to local archaeological sites. No previous coursework in archaeology necessary.—R. Solecki.

3 points.

M 11:00-1:30.

FOR MAJORS ONLY

V 3041x. History of Anthropological Theory.

Intellectual developments contributing to the formalization of anthropology as a discipline. The works of Montesquieu, Comte, Maine, Durkheim, and Marx, along with the theoretical writings of such anthropologists as Tylor, Morgan, Boas, Malinowski, and Radcliffe-Brown.—P. Rubel.

3 points.

Tu Th 10:35-11:50.

42y. Colloquium: Current Anthropological Theory.

Intensive analysis of selected theoretical approaches and issues in anthropology. Subject matter changes from year to year and may include, for example, Male and Female in Anthropological Perspective; Women and Work; Applied Anthropology, etc.

Permission of the instructor required.

Enrollment limited to ca. 16 students.

4 points.

Section I Th 4:10-6:00. N. Rothschild.

Section II M 11:00-1:00. S. Beck.

V 3500y. Colloquium: Problems in Structuralism.

Reading and research in anthropological theories of structuralism; review of works of Claude Lévi-Strauss, Edmund Leach, and others in relation to relevant work in linguistics, psychology, sociology and philosophy.

Enrollment limited to 20 students.

Not offered in 1981-82.

4 points.

V 3625x. Anthropology and Film.

Use of film by anthropologists as a means of documentation of culturally patterned behavior and as a research tool. Films will also be analyzed as cultural texts.

3 points.

W 9:00-10:50.

V 3700x. Colloquium: Anthropological Research Problems in Complex Societies.

Study of the local community and its relationship to regional and national societies; discussion of plural societies, minority and ethnic groups in a cross-cultural setting. Cases selected from African, Latin America, Asia, Europe, and North America.—Instructor to be announced.

4 points.

W 11:00-12:50.

Anthropology

V 3720x. Colloquium: Marxism and Ethnography.

Examination of some basic sources of Marxist social theory, their implications for anthropological theory and method, and selected ethnographies influenced by or relevant to them.

Enrollment limited to 20 students. Permission of the instructor required.

Not offered in 1981-82.

3 points.

V 3825x. Seminar: Archaeology and Religion.

Survey of the nature and role of religion in prehistoric societies from the time of its earliest manifestations in the archaeological record through the rise of ancient civilizations. Archaeological data as well as ancient textual evidence of religious ideology and activity in prehistoric societies throughout the world. The relationship between religion, political structure, and economy, the diffusion of religious ideologies, and the role of religion in the rise of centralized societies.

Prerequisite: Course V 1001, V 1002. Permission of the instructor required.

Not offered in 1981-82.

4 points.

67x. 68y. Ethnographic Research in New York City.

Seminar-Workshop on field research in New York City. Lectures, discussions and demonstrations of research methods of anthropology followed by supervised field research on selected ethnographic topics in a variety of urban settings.

Permission of the instructor required.

Enrollment limited to ca. 16 students.

Field work required.

Not offered in 1981-82.

4 points.

71x-72y. Senior Research Seminar.

Discussions and conferences on individual advanced research projects including those which have developed from students' participation in Anthropology 67-68. Each student is engaged in independent research under the guidance of her Senior Essay Adviser. All students participating in the seminar may meet together periodically for joint discussion. During the Spring Term a final seminar meeting may be held at which students present their work prior to its submission as satisfying the Senior Research Essay requirement of the Department.—Staff.

4 points.

Hours to be arranged.

99x, 99y. Individual Projects.

Research projects are planned in consultation with members of the department and work is supervised by the major's Research Essay adviser. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the Department each semester. The final research paper is submitted to meet the Senior Research Essay requirement of the department.—Staff.

Permission of the instructor required.

4 points.

Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department chairman and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Architecture

Office: 303 Barnard Hall

Telephone: 280-3546

Visiting Professor

Robert Winne

Assistant Professor

Waltraude Schleicher-Woods (Adviser, Architecture Majors)

Officers of the University offering courses listed below:

Professor

James Polshek

Associate Professors

David G. DeLong, Michael Mostoller, Dorothea Nyberg, Robert A.M. Stern

Assistant Professors

Rosemarie Bletter, Mary McLeod, Lauretta Vinciarelli

Adjunct Assistant Professors

Julian Weiss, Ronald Williams

Instructor

Dimitri Balamotis

Special Lecturer in Architecture

Mario Salvadori

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social, and cultural forms and environmental contexts. Active studio work complements seminar discussions, lectures and research, and students are encouraged to choose a "cluster" of courses in another area of particular interest, thus relating architecture to other disciplines.

Student considering an Architecture major or minor should consult with the adviser at the earliest possible date in order to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

REQUIREMENTS FOR THE MAJOR

The major in Architecture is required to complete 16 courses, at least six of which should be Barnard courses:

5 Studio courses (studio courses have limited enrollment and priority is given to Architecture majors and upperclassmen)

10 or C 3103

Freehand Drawing

12 or C 3101

Architectural Graphics

14

Fundamentals of Architectural Design

C 3201-C3202

Elements of Architectural Design I and II

7 History/Theory courses

Each semester there are other applicable courses scheduled at the University that can be taken upon approval of the adviser. For the description of these courses consult the listings of other departments.

Architecture

5 Lecture courses from the following list:

C 1001	<i>Introduction to Architecture</i>
C 3301	<i>The Beginning of Architecture</i>
C 3302	<i>Architecture in the Western World</i>
A 4110	<i>Building of Buildings</i>
Art History 61	<i>European Architecture from the Renaissance to 1700</i>
Art History 69	<i>French Architecture 1500-1800</i>
Art History 70	<i>European Architecture from the 18th Century to 1900</i>
Art History	<i>Twentieth Century Architecture</i>

2 Seminars to be taken in the Junior or Senior Year:

C 3901	<i>Senior Seminar</i>
Art History C 3666	<i>Architecture since 1945</i>
Art History 93	<i>Fantasy Architecture, 1700 to the Present</i>
95	<i>Architectural Theory Seminar</i>
Art History 96	<i>Art of the Rococo</i>
Art History 98	<i>Social and Political Functions of Architecture</i>

1 of the following courses with laboratory:

Geography 1,2	<i>Environmental Science</i>
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3 courses, chosen in consultation with the adviser from one area of study or cluster such as Anthropology, Art History, Economics, Environmental Conservation and Management, Geography, History, Philosophy, Political Science, Psychology, Sociology, Urban Studies, or Studio Art.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

C 321-I-C 3212	<i>Intermediate Design I and II</i>
Physics V 1003	<i>General Physics</i>
Mathematics V 1100	<i>Brief Calculus</i>

REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses: Architecture 14, 10 or C 3103 and 3 History/Theory courses to be chosen in consultation with the adviser.

Note: All studio, seminar, and upper lever courses require the permission of the instructor and student sign-up before registration.

C 1001y. Introduction to Architecture.

Intended for prospective architecture majors as well as those interested in acquiring a general familiarity with architecture. Basic concepts and representative buildings. Lectures, readings, discussions and field trips.—J. Polshiek.

Recommended in the sophomore year.

3 points.

M 1:00-2:00, W 12:00-1:50.

C 3301y. The Beginnings of Architecture.

Survey of the history of architecture from prehistoric times through the fall of Rome, including major examples of non-Western architecture.—D. De Long.

3 points.

Tu Th 12:00-2:00.

C 3302y. Architecture in the Western World.

Continuation of Course C 3301. Survey of European architecture from the fall of Rome to the beginnings of the Industrial Revolution.—D. De Long.

Recommended in the sophomore year.

3 points.

Tu Th 12:00-1:50.

Architecture

A 4110x. The Building of Buildings: A Survey of Structural Principles.

Introduction to basic concepts of structural action by means of models, slides, and films. Elementary and refined concepts are qualitatively considered without the use of mathematical tools. Special consideration to modern structural materials and to both classical and contemporary structural systems.—

M. Salvadori.

Recommended in the sophomore year.

2 points.

Tu 6:10-8:00.

C 3901y. Senior Seminar.

Readings, individual class presentations, and written reports.—M. Mostoller, D. Balamotis.

Open to architecture majors only.

3 points.

Section I W 10:00-11:50.

Section II Tu 6:00-8:00.

95x. Architectural Theory Seminar: Design for Social Behavior.

Systematic observation and analysis of key situations in the built environment in which human activity has been energized by specific qualities of the settings. Study of design responses necessary to fulfill human needs at various stages and conditions of life from youth to old age.—R. Winne.

Open to juniors and seniors only.

3 points.

F 11:00-12:50.

STUDIO COURSES

10y. Freehand Drawing.

Drawings from nature and architecture; spatial notations; image systems and their use; research in three dimensions.—R. Williams.

Recommended in the sophomore year.

3 points.

Section I Tu Th 9:00-10:50.

Section II Tu Th 9:00-10:50.

C3103x. Freehand Drawing.

Same as Course 10.—R. Williams.

Recommended in the sophomore year.

3 points.

Section I Tu Th 9:00-10:50.

Section II Tu Th 9:00-10:50.

12y. Architectural Graphics.

Introduction to a two- and three-dimensional graphics vocabulary with emphasis on measured drawing techniques and scale model construction.—L. Vinciarelli.

Recommended in the sophomore year.

3 points.

Section I Tu Th 9:00-10:50.

Section II Tu Th 11:00-12:50.

C3101x. Architectural Graphics.

Same as Course 12.—L. Vinciarelli.

Recommended in the sophomore year.

3 points.

Section I Tu Th 9:00-10:50.

Section II Tu Th 11:00-12:50.

14y. Fundamentals of Architectural Design.

Introduction to aspects of the design process in architecture. Vocabulary and tools used in translating ideas into the two- and three-dimensional model forms which ultimately represent the reality of building.—W. Schleicher-Woods and guests.

Designed for but not limited to sophomores.
Permission of the instructor required.

3 points.

Tu Th 2:10-4:10.

C3201x. Elements of Architectural Design I.

Workshop introduction to architecture: fundamental problems of enclosure design through simple exercises requiring drawings and models: lectures, discussions, and studio work.—

R. Stern, W. Schleicher-Woods, J. Weiss.

Prerequisite: Courses 10 or C 3103 and 12 or C 3101.

4 points.

M W 9:00-11:50.

C3202y. Elements of Architectural Design II.

Workshop continuation of Course C3201. Field trips and lectures organized in relation to the work program.—R. Stern, W. Schleicher-Woods.

Prerequisite: Course C 3202.

4 points.

M W 9:00-11:50.

C3211x. Intermediate Design I.

Further exploration of the design process. Programs of considerable functional and contextual complexity are undertaken.—Instructor to be announced.

Candidates for admission to the course are chosen by interview during the spring term of the junior year. Eligible students are requested to consult the program adviser for Barnard College before April 1.

Prerequisites: Course C 3202 and permission of the program adviser.

4 points.

Tu Th 9:00-11:50.

C3212y. Intermediate Design II.

Continuation of Course C3211.—Instructor to be announced.

Prerequisite: Course C 3211.

4 points.

Tu Th 9:00-11:50.

Art History

Office: 301B Barnard Hall

Telephone: 280-2118

Professor

Barbara Novak

Adjunct Professor

Brian O'Doherty

Associate Professor

Dorothea Nyberg, Jane Rosenthal (Chairman)

Assistant Professors

Anne W. Lowenthal, Joseph Masheck

Visiting Assistant Professor

Judith E. Bernstock

Visiting Artists

Ann McCoy, Milton Resnick

Other officers of the University giving instruction at Barnard College:

Assistant Professor

Jerrilynn Dodds

Other officers of the University offering courses listed below:

Professors

James Beck,² Richard Brilliant, George Collins, Howard McP. Davis,² Douglas Fraser, Robert Hanning (English), Howard Hibbard, Miyeko Murase, Edith Porada, Theodore Reff,¹ David Rosand, Allen Staley

Adjunct Professors

Carl Dauterman, Colta Ives

Assistant Professors

Christiane Andersson,¹ Rosemarie Bletter, Louise Bordaz, Victor Caliandro, Beth Cohen, Stephen Gardner,² Ogden Goelet, John James, Michael Marrinan, Gerald Silk,¹ Richard Vinograd

Visiting Assistant Professor

Vidya Dehejia

Lecturer

Doris Heyden

¹Absent on leave, 1981-82

²Absent on leave, Spring Term

Art History, which involves analysis of man's cultural and artistic expressions, is one of the broadest of the humanistic disciplines. Students study works of art and relate them to the cultures that produced them. The study is both formal (dealing with problems of style) and historical (dealing with a wide range of related disciplines such as history, philosophy, literature, religion, and anthropology). Students not only examine how a work of art is made, but also ask "why"; knowledge of intention, as far as that is possible, leads to a better understanding of civilizations, past and present. The department emphasizes direct experience of the art object through use of New York City's museums and art galleries, which are the center of the international art world.

All students are encouraged to develop professional standards which can be used for future growth in graduate study and in professional work in teaching, museums, galleries, art foundations, art publishing and editing, and art criticism. The department encourages experience in studio art and interdisciplinary studies in related fields.

A limited number of studio courses are offered at Barnard; in addition students may take courses for which they qualify in the Department of Painting and Sculpture, School of the Arts of Columbia University. See page 91 for regulations governing these courses. A studio fee is charged for studio art courses.

Students contemplating a career in studio art should see the announcement on the Program in the Arts, page 93, and consult with the Art History Chairman or the Chairman of the Program in the Arts at the earliest possible time.

REQUIREMENTS FOR THE MAJOR

Each major chooses an adviser who assists her in planning a program that incorporates personal interests while meeting departmental requirements. Nine courses are required for the major. Art History 1, 2, *Introduction to the History of Art*, is strongly suggested as an introduction to the field though it may be waived if a student has sufficient previous training. The nine courses should include at least one in each of the following periods—ancient, medieval, renaissance, baroque and modern—and three seminars. Of these, four lecture courses and two seminars should be taken at Barnard. Courses in film are accepted as part of the major; studio courses are encouraged but are not part of the major.

A senior essay is required of the major. Under special circumstances and with the chairman's permission, seniors may elect Art History 99, *Independent Research*, for the senior essay. Art History 99 may not be used to fulfill the seminar requirement, but may be taken in addition to the three required seminars. The senior essay may be an expansion of a seminar paper.

Students who plan to undertake graduate work should obtain a reading knowledge of at least two foreign languages in which the major contributions to the history of art have been made. Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.

REQUIREMENTS FOR THE MINOR

The minor in Art History consists of 5 lecture courses, including Art History 1, 2 and one each in three of the following periods: ancient, medieval, renaissance, baroque, and modern.

COURSES OF INSTRUCTION

1x,2y. *Introduction to the History of Art.*

Brief examination of the techniques of visual analysis, followed by a chronological survey of the major period styles of Western European art. Emphasis on the interpretation of form and content in the works studied and on the correlation of the visual arts with their respective cultural environments. Autumn Term: Greek and Roman art, medieval art Spring Term: Renaissance to modern art.—J. Bernstock.
Either course may be taken separately.

3 points.

M W 1:10-2:25.

V 3080x. *Pre-Columbian Art.*

Survey of pre-Hispanic art of Mesoamerica, Central America, and the Andean region from the earliest times to the Spanish Conquest.

3 points.

M W 10:30-11:50.

W 4085x. *Myth, Ritual, and Symbol in Pre-Hispanic Mexico.*

A discussion of the major myths and rituals in pre-Hispanic Mexican culture, based on the analysis of 16th century Spanish and native chronicles and the related symbols in the pre-Columbian visual arts.—D. Heyden.

3 points.

Hours to be arranged.

W 4065y. *Art of Oceania.*

Form and content of the traditional arts of Indonesia, Australia, Melanesia, Micronesia, and Polynesia.—D. Fraser.

Not offered regularly. Not offered in 1981-82.

3 points.

W 3155x. *Introduction to the Archaeology of the Near East and the Aegean.*

Survey of archaeological method and examination of selected Neolithic and Bronze Age sites.—L. Bordaz.

3 points.

M W 2:40-3:55.

Art History

W 3150x. Art and Architecture of the Ancient Near East.

Arts of the ancient cultures of Mesopotamia, Iran, Anatolia, Syria, and Palestine from the 4th millennium through the Achaemenid period in the late first millennium B.C.—E. Porada.

3 points.

M 5:30-8:00.

W 3153y. The Neolithic in the Near East and the Aegean.

Lectures and discussion sessions focusing on theories relating to this period and on representative sites.—L. Bordaz.

Offered every three years. Not offered in 1981-82.

3 points.

W 3156y. The Transition to Urban Life and "Civilization" in the Ancient World.

Integrated study of developments in the Near East and the Aegean from approximately the eighth through the second millennium B.C.—L. Bordaz.

The second course in a sequence with Course W 3153 and W 3155, which is directed toward students not only in art history but also in other disciplines relating to the ancient world, such as anthropology, history, Middle East languages and culture.

3 points.

M W 2:40-3:55.

W 3180x. Art of Ancient Egypt.

Introduction to Egyptian representational art from the Pre-Dynastic culture to the end of Dynastic Egypt.—E. Porada.

Not offered regularly. Offered in 1981-82.

3 points.

M 5:30-8:00.

W 4186x. The New Kingdom in Egypt: Late Bronze Age in Western Asia.

E. Porada and O. Goelet.

Not offered 1981-82.

3 points.

W 4187y. The History, Culture, and Art of the Late Period in Egypt.

O. Goelet.

Not offered in 1981-82.

3 points.

Archaeology W 4173x. Archaeology of Turkey I.

Survey of the prehistoric archaeological record in Turkey from earliest times to the third millennium B.C.—L. Bordaz.

Offered in alternate years. Not offered in 1981-82.

3 points.

Archaeology W 4174y. Archaeology of Turkey II.

Survey of the archaeological record in Turkey during the third and second millennium B.C.

including a review of the Hittite civilization.—L. Bordaz.

Offered in alternate years. Not offered in 1981-82.

3 points.

W 4208x. Archaeology of the Aegean Areas I.

Survey of the prehistoric record in the Aegean areas from earliest times to the third millennium B.C.—L. Bordaz.

Not offered regularly. Not offered in 1981-82.

3 points.

W 4209y. Archaeology of the Aegean Areas II.

Survey of the archaeological record in the Aegean areas during the third and second millennium B.C., including a review of the Minoan civilizations.—L. Bordaz.

Not offered regularly. Not offered in 1981-82.

3 points.

V 3246y. Myth and Art in Greece.

Changing representation of mythological and religious themes in Greek painting and sculpture from the late Geometric to the Hellenistic period; emphasis on the development of specific cycles of myths of heroes and gods with reference to their historical contexts; readings in ancient sources (in translation) and in modern criticism.—B. Cohen.

Not offered regularly. Not offered in 1981-82.

3 points.

W 4280x. Classical Mythology and the Western Tradition.

Analysis of the representation of selected classical myths in Western art from Greek Geometric times to Picasso.—B. Cohen.

3 points.

Tu Th 4:10-5:25.

V 3248x. Greek Art and Architecture.

Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest.—B. Cohen.

3 points.

Tu Th 2:40-3:55.

V 3250y. Roman Art and Architecture.

Architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West.—R. Brilliant.

3 points.

Tu Th 2:40-3:55.

51x. Early Christian and Early Medieval Art.

Christian art from its beginnings in the late antique world through the sixth century, followed by the early medieval styles of northern Europe including Hiberno-Saxon, Carolingian and Ottonian art.—J. Rosenthal.

3 points.

M W 2:40-3:55.

52y. Art of the Later Middle Ages.

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions.—J. Dodds.

3 points.

M W 2:40-3:55.

W 3133y. Islamic Art and Society.

Major monuments of a millennium of Arab and Persian art as an expression of the development and growth of Islamic civilization.—J. Dodds.

Not offered in 1981-82.

3 points.

V 3420y. Italian Sculpture during the Renaissance.

Survey of developments from the thirteenth to the sixteenth century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo. J. Beck.

Not offered 1981-82.

3 points.

W 4448y. Michelangelo.

Emphasis on painting and sculpture: the early works, the Tomb of Julius II, the Sistine Chapel ceiling, the Medici Chapel, late painting and sculpture. Michelangelo studied as an artist who transcends his period, and as the outstanding creative force in that period with influence for both good and bad on younger artists.—H. Hibbard.

3 points.

Tu 4:10-6:00. Additional hour for undergraduates W 3:10-4:00.

W 3400x. Italian Renaissance Painting.

The work of the major masters who flourished in the fifteenth and early sixteenth centuries with special emphasis given to Masaccio, Piero della Francesca, Leonardo da Vinci, Giovanni Bellini, Giorgione, Titian, and Michelangelo.—J. Beck.

3 points.

Tu Th 6:10-7:25.

W 3633y. Italian Renaissance Painting.

Painting in Italy from the revival of painting in the late thirteenth century to the early sixteenth century; emphasis on the Early Renaissance and on the works of Giotto, Masaccio, and Piero della Francesca. High Renaissance, with stress on Leonardo da Vinci and Michelangelo and their role in the continuity of tradition.—H. Davis.

Not offered in 1981-82.

3 points.

W 4437x. Italian Painting of the 16th Century.

The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures.—D. Rosand.

3 points.

Tu Th 9:10-10:25.

W 3688x. Northern European Painting.

Renaissance humanism and realism, the tradition of satiric imagery and the emergence of the Baroque, particularly in Flanders and Holland, with emphasis on Jan van Eyck, Van der Weyden, Bosch, Bruegel, and Rembrandt.—H. Davis.

3 points.

Tu Th 10:35-11:50.

W 4430y. German Renaissance Art.

Survey of painting, sculpture, and graphic arts in Germany during the period 1480-1550, concentrating on Schongauer, Dürer, Grünewald, Altdorfer, Riemenschneider, and the Vischers. C. Andersson.

Not offered regularly. Not offered in 1981-82.

3 points.

61x. European Architecture from the Renaissance to 1700.

Development of Renaissance and Baroque architecture in Italy, France, Germany, and England from the fifteenth century to 1700. Architects studied include Brunelleschi, Bramante, Michelangelo, Delorme, Cortona, Borromini, François Mansart, Hardouin-Mansart, Inigo Jones, and Wren.—D. Nyberg.

3 points.

Tu Th 2:40-3:55.

69x. French Architecture 1500-1800.

The cohesive tradition of French architecture, with major emphasis on Delorme, Salomon de Brosse, Lemercier, Mansart, Le Vau, Perrault, Hardouin-Mansart, Meissonier, Servandoni and Soufflot.—D. Nyberg.

3 points.

Tu Th 10:35-11:50.

70y. European and American Architecture from the Eighteenth Century to 1900.

Development of eighteenth-century architecture in Europe and America; interaction of historical styles and new structural techniques in the nineteenth century.—D. Nyberg.

3 points.

Tu Th 2:40-3:55.

C 3020y. Drawings and Prints.

Changing styles and functions of drawing from the fifteenth century to the present and the development of printmaking as an expressive medium; emphasis on Pisanello, Leonardo, Dürer, Michelangelo, Rembrandt, Goya, and Picasso.—D. Rosand.

Prerequisite: Humanities C 1121 or the equivalent.

Not offered in 1981-82.

3 points.

Art History

W 4540x. Bernini.

Central figure of the Roman Baroque seen against the background of his predecessors in painting, sculpture, and architecture. Lectures on the origins of Bernini's sculpture and the development of his approach to religious imagery, followed by a consideration of his growing interest in architecture and environmental control.—H. Hibbard.

Not offered in 1981-82.

3 points.

59y. Seventeenth-Century Painting in the Netherlands.

Emphasis on Rubens, Van Dyck, Jordaens, Hals, Rembrandt, Ruisdael, and Vermeer; relationships between Flemish and Dutch painting and contemporary art in Italy, France, and Spain.—A. Lowenthal.

3 points.

Tu Th 1:10-2:25.

75x. European Painting since the Renaissance I.

Baroque and Rococo painting in Italy, France, England, Flanders, Holland and Spain from 1600 to the middle of the eighteenth century, with emphasis on Caravaggio, the Carracci, Poussin, Rubens, Rembrandt, Velazquez, Watteau, Hogarth, and Tiepolo.—J. Bernstock.

3 points.

Tu Th 2:40-3:55.

76y. European Painting since the Renaissance II.

Painting from the late eighteenth century to 1900; Neoclassicism, Romanticism, Realism, Impressionism and Post-Impressionism. Emphasis on developments in France, from David to Cézanne and Seurat, with attention to Goya, Constable, and Turner as well.—J. Masheck.

3 points.

Tu Th 2:40-3:55.

V 3748y. European Painting in the Eighteenth Century.

From Watteau and Tiepolo to David and Goya. Emphasis on new styles and subjects appearing between 1750 and 1800 and their relation to the contemporary cultural and social background.—A. Staley.

3 points.

M W 4:10-5:25.

W 3600x. Nineteenth-Century Art.

Painting and sculpture in Western Europe from 1789-1900; Neoclassic, Romantic, Realist, Impressionist, and Post-Impressionist movements.—M. Marrinan.

3 points.

Tu Th 6:10-7:25.

72y. Women in Art.

Survey of women artists from the Renaissance to the present, examining the works, careers, and lives of women artists and the changing role of women in relation to the art establishment.—J. Bernstock.

3 points.

Tu Th 4:10-5:25.

78x, 79y. Modern Art. (78 formerly 73, 79 formerly 74)

Consideration of art—principally but not exclusively painting—in the past century. Autumn Term: from the origins of modern painting until after World War I. Spring Term: from the period between the Wars onward.—J. Masheck. *Course 78 or its equivalent recommended as preparation for Course 79.*

3 points.

Tu Th 10:35-11:50.

F 3650y. Twentieth-Century Art.

Major trends and sources of twentieth-century painting, sculpture and architecture with emphasis on understanding the cultural environment and related developments.—K. Silver.

3 points.

Tu Th 6:10-7:25.

W 4840x. Art Since 1945.

Painting and sculpture in Europe and America from 1945 to the present.—G. Silk.

Not offered regularly. Not offered in 1981-82.

3 points.

C 3833x. Twentieth-Century Architecture.

Tendencies in 20th century architecture and city planning as related to other cultural developments; origins of the modern movement in the stylistic and technological developments of the 19th century; major contemporary contributions.—R. Bletter.

Not offered regularly. Offered in 1981-82.

3 points.

M W 12:00-1:15.

W 4665x. Modern Architecture.

Tendencies in 20th century architecture and city planning as related to other cultural developments; origins of the modern movement in the stylistic and technological developments of the 19th century; major contemporary contributions.—G. Collins.

Not offered in 1981-82.

3 points.

W 4711x. The Architecture of Richardson, Sullivan, and Wright.

The work of the three great masters of American architecture set into the context of developments in American society 1875-1950. Particular emphasis on the development of the Chicago School.—J. Connors.

3 points.

Hours to be arranged.

V 3662y. Cities and Planning.

Characteristic forms of cities since ancient times. Analysis of the purpose and meaning of forms of preplanning that have been suggested, especially since the Renaissance.—G. Collins. *3 points.*

M W 12:00-1:15.

W 4624x. American Painting 1760-1900.

Principal ideas behind the American painting tradition with special attention to varying concepts of realism and idealism and to correspondences in philosophy, science and literature.—B. Novak.

3 points.

M 2:10-4:00; third hour for undergraduates Tu 2:10-3:00.

W 3605x. The Arts in Spain from the Golden Age to the Present.

Major figures, monuments, movements, and styles in Spanish art and architecture from ca. 1500 to the present; emphasis on the distinctive Spanish nature of the arts and their relation to other aspects of the culture and history of the peninsula.—G. Collins.

Not offered regularly. Not offered in 1981-82. 3 points.

V 3201x. Arts of China. (formerly 91)

Survey of Chinese art from Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods; arts of Central Asia and India as they affect the arts of China.—R. Vinograd.

3 points.

Tu Th 4:10-5:25.

V 3203y. Arts of Japan. (formerly 92)

Survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods with emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and wood-block prints.—M. Murase.

3 points.

Tu Th 4:10-5:25.

W 4127y. The History of Indian Art.

A general introduction focusing on selected topics, including Buddhist narrative sculpture, rock-cut monuments of the Deccan, and art associated with Tantra.—V. Dehejia.

3 points.

Tu 4:10-6:00. An additional hour for undergraduates will be arranged.

F 3684y. Five Great Printmakers: Dürer, Rembrandt, Piranesi, Goya, Degas.

Masters' prints are discussed in terms of subject matter, techniques, and stylistic development. Firsthand study of originals in the Metropolitan Museum's collection with attention to connoisseurship.—C. Ives.

Enrollment limited to 15 students.

3 points.

Tu 5:30-8:00.

F 3690x. Museum Studies: European Furniture History.

A comparative study of characteristic 18th century furniture styles in France, England, and America, as exemplified in period rooms of the Metropolitan Museum of Art. Class limited to twenty students: meets at the Metropolitan Museum.—C. Dauterman.

3 points.

Tu 5:30-8:00.

SEMINARS

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard seminars. In addition it is strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 815 Schermerhorn.

53y. The Art of Medieval Manuscript Illumination.

Principal forms of decoration and illustration in medieval manuscripts, including examination of original works in collections in New York City.—J. Rosenthal.

4 points.

W 11:00-12:50.

C 3933y. Medieval Art at the Cloisters.

P. Blum.

Not offered regularly. Offered in 1981-82.

4 points.

Tu 2:10-4:00.

C 3960x. Renaissance Book Illustration.

Style and function in the development of woodcut book illustration from ca. 1420-1530, focusing primarily on northern centers such as Nuremberg, Basel, Mainz, and Augsburg, with consideration of early ties with Venice. Students will study originals in the Columbia University collections and the New York Public Library.—C. Andersson.

Not offered regularly. Not offered in 1981-82.

4 points.

W 3960y. Roman Baroque Architecture.

Bernini and Borromini—H. Hibbard.

Not offered regularly. Not offered in 1981-82.

4 points.

65y. Italian Baroque Frescoes.

Major developments in Italian frescoes from Pietro da Cortona to Giambattista Tiepolo, with some discussion of earlier traditions.—J. Bernstock.

Prerequisite: a lecture course in 17th or 18th century art.

Not offered in 1981-82.

4 points.

Art History

96y. Arts of the Rococo.

Painting, sculpture, and architecture of the first half of the eighteenth century in light of the international culture of Europe; emphasis on Watteau, Chardin, Meissonnier, Boffrand, Juvarra, Specchi, and Hawksmoor.—D. Nyberg.
Enrollment limited to 10 students.

Offered in alternate years. Offered in 1981-82.

4 points.

M 11:00-12:50.

W 3940y. Aspects of Neo-Classicism.

An investigation of the sources, theories, and development of Neo-Classicism. Special focus on the international character of the movement and its interrelationships with contemporary political and social currents. Oral and written reports.—M. Marrinan.

Prerequisite: A survey course in 18th or 19th century art, and the instructor's permission.

4 points.

Th 2:10-4:00.

W 3930y. Victorian Art.

Pre-Raphaelite Brotherhood and contemporaries such as Watts and Leighton.—A. Staley.
Not offered regularly. Not offered in 1981-82.

4 points.

W 3970y. Art and Photography.

History of photography, with emphasis on later 19th-century and early 20th-century art photographers, and on problems of the interrelation of photography and other visual arts.

Not offered regularly. Not offered in 1981-82.

4 points.

87y. Vincent van Gogh.

Works of the major Post-Impressionist painter seen in the context of past and contemporary art and literature. Van Gogh's personality and religious philosophic ideas will be considered in relation to his thematic and stylistic development.—J. Bernstock.

Prerequisite: Junior standing, Courses 79 and W 3600.

4 points.

W 4:10-6:00.

C 3984y. Cézanne.

Historical context, personal content, artistic sources, and stylistic development of Cézanne's art. Emphasis on the study of original works in New York museums. Oral and written reports.
Prerequisite: Junior standing, one course in 19th century art, and permission of the instructor required.

Not offered regularly. Not offered in 1981-82.

4 points.

C 3970y. Picasso.

Historical context, personal content, artistic sources and stylistic development of Picasso's art. Emphasis on the study of original works in New York museums.—T. Reff.

Prerequisite: Junior standing, one course in 20th century art, and permission of the instructor.

Not offered in 1981-82.

4 points.

W 3945y. The Art of the 1960s.

A study of the varied and complex artistic scene after the decline of Abstract Expressionism. Emphasis on Color Field painting, Pop Art, Happenings, Minimal Art.—K. Silver.

Prerequisite: Junior standing, one course in 20th century art, and the permission of the instructor.

4 points.

Hours to be arranged.

93x. Fantasy Architecture, 1700 to the Present.

Seminar topics chosen from among the many influential architect-dreamers affecting architectural works of Europe and America. Examples: Boullee, Ledoux, Pugin, Gaudi, Sant-Elia, Safdie, Soleri, Kahn.—D. Nyberg.

4 points.

M 11:00-12:50.

98y. Social and Political Functions of Architecture.

Religious architecture, funeral monuments, the architecture of kingship and of the French and American republics.—D. Nyberg.

Offered in alternate years. Not offered 1981-82.

4 points.

W3988x. Approaches to Architectural History.

In-depth examination of some of the major methods of architectural history; formal analysis, archaeological reconstruction, structure, patronage, role of architectural graphics, urbanism. Topics will be drawn from the whole range of architectural history.—J. Connors.

4 points.

Hours to be arranged.

C 3666y. Architecture since 1945.

Recent architectural theory and design based upon primary source materials. The work of Frank Lloyd Wright, LeCorbusier, Aalto, Kahn, Venturi, Moore, Team 10, and such visionaries as Buckminster Fuller, Archigram, the Metabolists, Soleri, and others.—R. Bletter.

Prerequisite: Course C 3833 or equivalent; junior standing and permission of the instructor.

Enrollment limited to 15 students.

Not offered regularly. Not offered in 1981-82.

4 points.

C 3986x. Art and Technology.

Interaction between modern art and contemporary technology with emphasis on various movements including Futurism, Constructivism, the Bauhaus, De Stijl, Precisionism, Pop, and others.—G. Silk.

Art History

Enrollment limited to 15 students.

*Not offered regularly. Not offered in 1981-82.
4 points.*

71y. Problems of Style.

Questions of style and historical periodization. Emphasis on developing a working contextual as well as formal approach. Critical studies in recent abstract painting.—J. Masheck.

Enrollment limited to 15 students. Permission of the instructor required.

4 points.

W 9:00-10:50.

82y. The Literature of Art.

Study of literary sources used in art historical research: artists' letters, journals and treatises (by Leonardo, Reynolds, Delacroix, Van Gogh, up to the present), contemporary biographies (Vasari), ideas and writings of leading critics and scholars (Baudelaire, Ruskin, Huizinga, Wölfflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Read, Malraux, Kubler, Sontag).—B. Novak.

Intended for junior majors, but also open to senior majors. Enrollment limited to 16 students. Permission of the instructor required.

4 points.

W 11:00-12:50.

W 3975x. Portraits.

The motif of portraiture in Western art from antiquity to modern times. Discussion of principal motifs, themes, and means of expression. Short papers and reports, museum visits.—R. Brilliant.

4 points.

Tu 2:10-4:00.

85x. Introduction to Connoisseurship.

Factors involved in judging works of art, with emphasis on paintings; materials, deterioration, damage, restoration; attribution; replicas, copies, imitations, and fakes; questions of relative quality. Meetings at the Metropolitan Museum of Art.—A. Lowenthal.

Enrollment limited to 14 senior majors. Permission of the instructor required.

4 points.

W 2:10-4:00.

86y. Art Criticism.

Workshop in writing criticism. Short weekly assignments on such matters as language, experience, narrative and the object; close examination of process. Students write art criticism based on their gallery visits and refer to current and previous criticism.—B. O'Doherty.

Enrollment limited to 15 students.

4 points.

M 11:00-12:50.

C 3974y. Seminar in Prints and Drawings.

Technique, function, and stylistic development in Renaissance and Baroque drawings and prints. Students will study originals at the Cooper Hewitt Museum, private collections, and dealers.—C. Andersson.

Not offered in 1981-82.

4 points.

99x, 99y. Independent Research for Seniors.

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chairman's permission.—Staff.

3 points.

Hours to be arranged.

STUDIO COURSES

A maximum of four courses of studio work may be credited. To receive credit for studio courses, students must take one art history course for every two studio courses taken. Studio courses 3, 4, 5, 6, 7, 8, are given at Barnard. Enrollment is limited and students must sign up. The remainder of studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the departmental representative. Classes are limited to 18 students. Students who wish to enter the Columbia courses listed below are required to apply for space in 305 Dodge Hall during the preregistration period prior to each term.

3x, 4y. Studio Painting.

Studio courses in painting with acrylic and oil; supplementary instruction in drawing and the use of color. Emphasis on individual development.—A. McCoy.

2 points.

Th 2:10-6:00.

5x, 6y, 7x, 8y. Painting.

Basic skills developed by setting specific tasks to be executed in painting. Previous art training is not necessary.—M. Resnick.

2 points.

F 1:00-5:00.

Drawing R1001x, R1002y. Drawing, I and II.

Model fee: \$15.00 per term.—Staff.

Enrollment limited to 18 students per section. Permission of the instructor required.

3 points.

Section I M W 9:00-11:50.

Section II M W 1:10-4:00.

Section III M W 7:10-10:00 p.m.

Section IV Tu Th 7:10-10:00 p.m.

(Autumn Term only)

Art History

GRADUATE COURSES

The following graduate lecture courses are open to qualified undergraduates. Permission of the instructor is required.

G4075x. Art of Africa.

Form and content of the traditional arts of various groups south of the Sahara.—D. Fraser.
Not offered in 1981-82.

3 points.

G 4259x. Greek and Roman Urbanism.

Development of ancient cities in the classical world with reference to planning and the creation of urban centers and building types.—R. Brilliant.
Not offered in 1981-82.

3 points.

G 4331y. Russian Art.

Survey of major periods of Russian painting from the rise of Kievan Russia to the Revolution and after.—A. Farkas.

Reading knowledge of Russian helpful but not required.

Not offered in 1981-82.

3 points.

G4114x. The Art of the T'ang Dynasty.

Cosmopolitan styles of the T'ang period, as enriched by influences from the Near East, Central Asia, and India, including the impact of T'ang art on Korea and Japan.—R. Vinograd.

Not offered in 1981-82.

3 points.

G4670y. Modern Spanish Art and Architecture.

Outstanding contributions of 19th and 20th century Spain from Goya to Tapiés; revivals, modernismo, Gaudí, and the modern movement in architecture; sculpture.—G. Collins.
Not offered in 1981-82.

3 points.

Program in the Arts

Office: 204 Barnard Hall Annex

Telephone: 280-2952

This program is supervised by the Committee on the Program in the Arts:

Professor of Art History

Barbara Novak

Professor of Dance

Jeanette Roosevelt (Chairman)

Professor of English (Writing)

Barry Ulanov

Professor of English (Theatre)

Kenneth Janes

Professor of Music

Hubert Doris

Program Coordinator

Deborah Loomis

Advisers for the Concentrations

Dance Jeanette Roosevelt, 203 Barnard Hall Annex

Music Hubert Doris, 409 Milbank Hall

Theatre Luz Castaños, 203 Milbank Hall

Visual Arts Joseph Masheck, 313 Barnard Hall

Writing Barry Ulanov, 408D Barnard Hall

The Program in the Arts is offered for a limited number of students who are gifted in one of the performing or studio arts and who wish both to continue the development of their skills and to obtain a liberal education. It is designed as an interdisciplinary major in the arts with concentration in one particular art. The program offers a general introductory course, a junior colloquium, and a senior seminar, as well as directed work in a field of concentration such as visual arts studio, music as a performing art, the dance in all its aspects, theatre as a performing art or as a discipline of literary scholarship, and writing in all its branches.

The Program draws upon the ample resources in the arts which New York City affords, both in opportunities for majors to study with master teachers and in bringing artists to the campus to work with students. Attendance at concerts and dance performances and visits to museums and galleries in the city allow a continuing interaction with the arts.

REQUIREMENTS FOR THE MAJOR

Students are normally admitted to the Program in the Arts in their sophomore year, but freshmen who look forward to entering this major are strongly advised to seek the counsel of advisers as early as possible in shaping their programs so as to include courses in at least two arts other than that in which they expect to concentrate. Recommended courses include: Art History 1, 2; Dance 66; English 3, 4, etc.; English 29; and Music 1-2. Admissision is based upon application to be made before March 15 of the sophomore year. Applicants provide supporting evidence of their individual skills. There are broad general requirements and special ones in each of the disciplines, but each student's program is shaped individually.

Students accepted as majors may take classes with artist-teachers in New York City.

Program in the Arts

Each student is required to take the three courses offered by the Program:

Arts 31
Arts 51
Arts 91

Imagery and Form in the Arts
Junior Colloquium and
Senior Seminar

In lieu of a senior thesis, majors in the Program offer an equivalent demonstration of mastery in the discipline: dancers present concerts; musicians perform solo recitals; theatre majors work as actors, designers, directors, or in a combination of these in a theatrical presentation; writers submit portfolios of stories or poems or both; visual artists hang shows of their work in Barnard's Little Gallery.

Requirements of the various concentrations within the Program are outlined in the following lists. A student should consult with the faculty member on the Committee who is responsible for the area in which her interest lies.

REQUIREMENTS FOR THE MINOR

No minor is offered in the Program in the Arts.

COURSES OF INSTRUCTION

31x. Imagery and Form in the Arts.

The operation of imagery and form in dance, music, theatre, visual arts, and writing; students are expected to do original work in one of these arts.—Staff and guests.

3 points.

Tu Th 10:35-11:50.

51y. Junior Colloquium.

An interdisciplinary consideration of a crucial period in the history of the arts. The inter-relationship of the arts, their separate and common critical vocabularies, their borrowings from each other, their defining differences.

Consideration of style in the various arts and major figures in the period whose innovations in style or inventions in technique led to new forms of expression, with the special skills in writing and discussion and equipping students to deal with the special problems that accompany the examination of art. Theme for 1981-82: The arts in the Middle Ages.—H. Doris, J. Roosevelt, and guests.

4 points.

Th 4:10-6:00.

91x. Senior Seminar.

Contemporary issues in the arts, with reports and projects leading to a thesis or performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration. Theme for 1981-82: Impressionism and Post-Impressionism.—J. Roosevelt and guests.

4 points.

Tu 4:10-6:00.

Courses required for the Dance concentration:

Dance 61-62.	<i>Dance Workshop I.</i>
Dance 63.	<i>Form in Dance Composition.</i>
Dance 64.	<i>Content in Dance Composition.</i>
Dance 65, 66.	<i>History of Dance.</i>
Dance 67.	<i>Fundamentals of Music for Dancers.</i>
Dance 71-72.	<i>Dance Workshop II.</i>
Dance 74.	<i>Seminar on Contemporary Choreographers and Their Works.</i>

Courses required for the Music concentration:

Any two of the following:

Music V3124.	<i>History II.</i>
Music V3125.	<i>History III.</i>
Music V3126.	<i>History IV.</i>

Plus the following courses if the student is not exempted from them upon entrance into the Program:

Music V2100-V2101.	<i>Theory I and II.</i>
Music V2300-V2301.	<i>Theory III and IV.</i>
Music V2303-V2305.	<i>Theory V and VI.</i>

Courses required for the Theatre concentration:

English 30.	<i>Introduction to the Theatre</i> (may be waived upon evidence of sufficient theatre background).
English 33, 34.	<i>Play Production</i>
English 31 or 32.	<i>The Contemporary Theatre.</i>

English 35 or 36.	<i>Actor's and Director's Interpretation of Dramatic Literature.</i>
Dance Technique.	One semester. (Dance composition may be substituted upon evidence of adequate prior training.)

Program in the Arts

Three courses in dramatic literature drawn from the following:

Class, Lit. V3123. *Greek Drama and its Influences.*
English 63 or 64. *Shakespeare.*
English 86. *Modern Drama.*
French 34. *The French Theater of the Seventeenth Century.*
Greek V3305. *Tragedy.*
German 25. *German Prose and Drama from Büchner to Nietzsche.*
German 26. *Modern German Theater.*

Courses required for the Visual Arts concentration:

Art History 1, 2. *Introduction to the History of Art.*
Art History 73, 74. *Art from 1875 to 1975.*
Art History 86. *Seminar in Art Criticism.*
A minimum of four studio courses, to be selected from offerings listed in the Barnard catalogue.

Courses required for the Writing concentration:

Four courses selected from the following:

English 3, 4. *Structure and Style.*
English 5, 6. *The Craft of Writing.*
English 7, 8. *Experiments in Writing.*
English 11, 12. *Story Writing.*
English 13, 14. *Dramatic Writing.*
English 93. *Literary Analysis and Evaluation.*

Plus two advanced courses from any of the College departments of language and literature.



Biological Sciences

Department Office: 1205 Altschul Hall

General Biology Course Office: 912 Altschul Hall

Telephone: 280-2437

Telephone: 280-2153

Professors

William A. Corpe, Patricia L. Dudley

Associate Professors

Philip V. Ammirato (Chairman), Frederick E. Warburton

Assistant Professor

Julia Chase¹, Suzanne H. Hampton, Paul E. Hertz, Dennis Stevenson

Other officers of the University offering courses listed below:

Professors

Sherman Beychok, Walter J. Bock, Wallace S. Broecker (Geological Sciences), John G. Hildebrand, Eric Holtzman, Cyrus Levinthal, Burton Singer (Mathematical Statistics), Alexander A. Tzagoloff, Geoffrey L. Zubay

Associate Professors

Eduardo R. Macagno, Alberto L. Mancinelli, Carol L. Prives

Assistant Professors

John D. Harding, James L. Manley, Stephen M. Schuetze, Catherine L. Squires, Maurice Zauderer

¹Absent on leave, Fall Term

Biology is a field which explores the structure, function, interactions, and evolution of living organisms. It includes the study of communities, populations, whole organisms, organs, tissues, cells, and subcellular components. Some of the most exciting issues of the day, such as those relating to ecological problems, genetic engineering, and environment and health, require a strong background in biology. At Barnard the emphasis is on organismal biology. Courses cover the gross and fine structure, development, physiology, behavior, ecology, and evolution of organisms and populations of organisms. This approach is complemented by the molecular, biochemical, and neurobiological approach of the Columbia University department.

Many students specialize in this field in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many subfields of biology leading to a teaching and research career. Still others plan futures as biological or medical librarians, scientific illustrators or photographers, researchers in industry or government, or in environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope with accessory equipment, photomicrographic and darkroom instruments, an Apple II computer, a scintillation counter, an ultracentrifuge, and physiographs. The facilities include constant temperature rooms, darkrooms, and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, or the Donald and Nancy Ritchie Fund. The department maintains a folder of summer courses and research stations, and information on available funds can be obtained from the department chairman. Support for participation or assistance in the research of the Barnard faculty is available at times from research grants and such programs as the Merck Foundation grant on Women in Science and Technology.

Biological Sciences

Biology 1-2, or its equivalent, is a prerequisite for upper level courses in the department. Students who have passed the Advanced Placement examination with a grade of 4 or 5 are exempted from the general course, but will not receive course credit. Such students should consult with the department chairman before entering courses for which general biology is a prerequisite. Students may also take courses at Columbia University, including graduate courses; they should consult the Bulletin of the Graduate School of Arts and Sciences and their advisers before planning to take such courses.

REQUIREMENTS FOR THE MAJOR

Students are encouraged to make a balanced selection of courses for the major, but no special concentration or track is required. Majors should consult their departmental advisers who are chosen at the end of the sophomore year.

A minimum of 8 courses in biology is required; five of these courses must include laboratory work. There is a laboratory fee of \$25 per biology laboratory course.

Courses counting for the laboratory requirement are:

Biology 1-2	<i>General Biology</i>
Biology 3	<i>The Biology of Plants</i>
Biology 5 with Biology 14	<i>Introduction to Genetics with Laboratory in Genetics</i>
Biology 7	<i>Invertebrate Zoology</i>
Biology 9	<i>Vertebrate Embryology</i>
Biology 10	<i>Microbiology</i>
Biology 11	<i>Morphology and Microanatomy of Vascular Plants</i>
Biology 12	<i>Cytology</i>
Biology 15	<i>Vertebrate Zoology</i>
Biology 16 with Biology 18	<i>Mammalian Physiology with Laboratory in Physiology</i>
Biology 19	<i>Population and Community Ecology</i>
Biology 24	<i>Plant Development</i>
Biology 28 with Biology 30	<i>Comparative Histology with Laboratory in Comparative Histology</i>
Biology 34	<i>Plant Physiology</i>
Biology 38 with Biology 40	<i>Biology of Reproduction with Laboratory in Reproductive Biology</i>
Psychology 17	<i>Physiological Psychology</i>
Biology 99x or y (if it includes laboratory work)	
Columbia biology courses with laboratory	
Laboratory courses from other colleges (with special permission of the chairman).	

Majors who are allowed the Advanced Placement exemption for Biology 1-2 must still take 8 biology courses with five laboratories. Biochemistry may be used as one of the eight courses required for the major, and students may use one additional non-biology course such as Psychology 17, *Physiological Psychology*, or 54, *Hormones and Reproductive Behavior*, or another course by special permission of the chairman.

Participation in a special project, Biology 99, is highly recommended. This course gives the student an opportunity to experience independent laboratory research. Both intradepartmental and extradepartmental projects require the approval of a member of the faculty in the department, who serves as sponsor (intradepartmental projects) or as cosponsor (extra-departmental projects). All projects must involve planning, experimentation and interpretation of results and all require a formal report, written in journal style. All extradepartmental projects receive pass or fail grades; intradepartmental projects may be graded P or F, or by a letter grade, at the option of the sponsor. Only one term may be counted toward the major.

Biological Sciences

The Graduate Record Examination or the Undergraduate Performance Examination is used as a major examination. The scores are also used, together with grade point averages and faculty recommendations, to determine the recipients of departmental honors.

A number of upper level biology courses require two years of chemistry (Chemistry 1, *General Chemistry*; 30 and 31, *Organic Chemistry I-II*; 32, *Intermediate General Chemistry*; and 38, *Quantitative and Instrumental Techniques Laboratory*). Entering freshmen who plan to major in biology are encouraged to take Chemistry 1 and 30 in addition to Biology 1 and 2 in their first year. Students interested in attending graduate or professional schools should also take at least two years of chemistry, and, in addition, one year each of calculus and physics. Graduate work generally requires a knowledge of one or more modern foreign languages.

Students interested in the health sciences should register with the Pre-professional Office in their freshman or sophomore year and must take the MCAT exam in their junior year.

REQUIREMENTS FOR THE MINOR

A minor in biology must have one year of general biology (two terms with laboratory) and three more advanced courses in biology, two of which must include laboratory work. Physics, Psychology, Chemistry, and Biochemistry majors need take only one advanced laboratory instead of two.

BIOPSYCHOLOGY

A major in biopsychology aims to provide a strong background in the biobehavioral sciences for students who plan to pursue a Ph.D. in Biopsychology or Psychobiology and for whom research training is of prime concern, and for students planning to enter the health sciences. The program is jointly administered by the departments of Biological Sciences and Psychology. Students electing this track are exposed to traditional courses in Biology (e.g., genetics, physiology) and Psychology (e.g., learning), as well as to interdisciplinary courses (e.g., development and evolution of behavior, neurosciences) and research training in the laboratory setting.

REQUIREMENTS FOR THE MAJOR

It should be noted that students may also arrange individualized interdisciplinary programs by taking a major in either Psychology or Biological Sciences and a minor in the other discipline, or by taking a double major.

A minimum of 12 courses in Biology and Psychology are required:

Biology 1-2 with laboratory;

One of the following combinations:

Biology 16 with Biology 18 and Psychology 19, *Physiological Psychology*
or Biology 16 and Psychology 17;

Biology 5

Introduction to Genetics

Biology 22

Animal Behavior

One of the following courses:

Biology 9

Vertebrate Embryology

Biology 15

Vertebrate Zoology

Biology W 3002

Introduction to Animal Structure and Function

Biology 19

Population and Community Ecology

Biology 7

Invertebrate Zoology

Biology 8

Physiological Ecology

Biology 38

Biology of Reproduction

Biology-Chemistry C 3501

Biochemistry I

Biological Sciences

Biochemistry G 4021
Psychology 54
Psychology 73

Psychology 1
Psychology 5
Psychology 9

Either Biology 99 or Psychology 99 or Psychology 91-92 in which the student will prepare a project;

If the project is taken in biology, one additional psychology course with laboratory; if project is taken in psychology, one additional biology course with laboratory;

Plus at least 7 cognate courses:

Chemistry 1
Chemistry 30, 31
Physics V 1003, V 1004
or
Physics V 1103, V 1104
Mathematics
Computer Science is optional.

General Chemistry I
Organic Chemistry I and II
General Physics

General Physics
One year calculus

The major examination consists of the Graduate Record Examination in Biology, the Graduate Record Examination in Psychology, or the completion of a satisfactory research paper in Psychology.

Students who wish to attend graduate or medical school are advised to take two semesters each of General Chemistry and Organic Chemistry.

REQUIREMENTS FOR THE MINOR

There is no minor in Biopsychology.

COURSES OF INSTRUCTION

1x-2y. General Biology.

Nature, development, and implications of biological knowledge; biochemical basis and energy relations of organisms; structure and function of cells; organization and physiology of plants and animals, with emphasis on integration and control; classical and molecular genetics; development and differentiation; evolution, ecology, and animal behavior.—1: P. Ammirato; 2: P. Hertz.

Enrollment in laboratory sections limited to 16 students per section.

4½ points.

Lecture M W F 9:00.

Laboratory Tu or Th 9:00-11:50, W or F 10:00-12:50, M, Tu, or Th 1:10-4:00, M, Tu, W, or Th 2:10-5:00.

3y. The Biology of Plants.

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and economic importance.—D. Stevenson.

Prerequisites: Course 1-2 or equivalent, and permission of the instructor.

Enrollment limited to 48 students.

5 points.

Lecture Tu Th 10:35-11:50.

Laboratory Tu or W 1:10-5:00.

4x. Natural History of the New York Area.

Field observations of plants, fungi, birds, reptiles, amphibians, lower invertebrates and arthropods; methods of identification, collection, preservation; visits to a variety of ecosystems, both semi-wild and altered by man.—F. Warburton, D. Stevenson, and J. Sanders.

Registration for course in Autumn.

Enrollment limited to ca. 15 students.

Field trips, laboratory, and discussions required.

3 points.

Hours to be arranged (part given in Autumn and part given in Spring term).

5x. Introduction to Genetics.

Mendelian and quantitative genetics of plants, animals, and man; segregation, recombination, measurement of linkage, and genetics of continuous variation; cytogenetics; developmental genetics; population genetics and evolution. Human genetics emphasized where it exemplifies general principles.—F. Warburton.

Biological Sciences

Prerequisites: Course 1-2 or the equivalent, calculus or statistics, or permission of the instructor.

Students interested in laboratory see Course 14. 3 points.

Lecture Tu Th 10:35-11:50, plus one hour recitation and demonstration to be arranged.

6y. Evolution.

Modern theory of evolution: genetic and ecological mechanisms which adapt organisms to their environments and increase the diversity of species.—F. Warburton.

Prerequisite: Course 1-2 or equivalent.

Offered in alternate years. Offered in 1981-82. 3 points.

Lecture Tu Th 10:35-11:50.

7x. Invertebrate Zoology.

Invertebrate animals: comparative fine and gross structure, development, physiology and autecology; emphasis on marine invertebrates. Laboratory-demonstration includes a survey of major groups and an individual project on the ultrastructure, physiology, or ecology of an invertebrate animal.—P. Dudley.

Prerequisites: Course 1-2 or the equivalent, and permission of the instructor. A course in cell biology is recommended.

Enrollment limited to 32 students.

5 points.

Lecture M W 11:00-12:15.

Laboratory/demonstration W or Th 1:10-5:00.

8y. Physiological Ecology.

Effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment.—P. Dudley.

Prerequisites: A year of college biology and permission of the instructor. A course in general chemistry is recommended.

Offered in alternate years. Offered in 1981-82. 3 points.

Lecture M W 11:00-12:15.

9x. Vertebrate Embryology.

Anatomy, morphogenesis, and differentiation of embryos of vertebrate animals: gametogenesis, fertilization, cleavage, gastrulation, and the morphogenetic and physiological events which occur during embryonic histogenesis and organogenesis. The laboratory includes comparative studies of the anatomy of embryos and experimental analysis of development.—S. Hampton.

Prerequisites: Course 1-2 with laboratory or its equivalent with permission of the instructor.

Enrollment limited to 40 students.

5 points.

Lecture M W F 9:00.

Laboratory M or Tu 1:10-5:00.

10y. General Microbiology.

Survey of prokaryotic and eucaryotic micro-organisms; structure and function, nutrition, physiology, genetics, growth, inhibition of growth and activity, classification, distribution and importance in natural environments.—W. Corpe.

Prerequisites: A year of college biology, general chemistry and permission of the instructor.

Enrollment limited to 24 students.

5 points.

Lecture M W F 9:00.

Laboratory M W 1:10-3:00.

11x. Morphology and Microanatomy of Vascular Plants.

An analysis of form and structure in the higher plants. Differentiation, ultrastructure and anatomy of cells, tissues and organs. Evolution and comparative morphology studied from the viewpoint of both fossil and extant representatives. Laboratory utilizes various histological techniques including fossil peels.—D. Stevenson.

Prerequisites: Course 1-2 or equivalent; Course 3.

Enrollment limited to 24 students.

5 points.

Lecture Tu Th 9:10-10:25.

Laboratory Th 1:10-5:00.

12y. Cytology.

Biology of cells: composition, development, and activities of cell walls, membranes, mitochondria, plastids, and chromosomes. Laboratory includes practice in fixation, sectioning, homogenization, smears, photomicrography, and specialized types of microscopy, including electron microscopy.

Prerequisites: A year of college biology with laboratory, and permission of the instructor.

Enrollment limited.

Not offered in 1981-82.

5 points.

14y. Laboratory in General Genetics.

Exercises in the use of *Drosophila*, *Neurospora*, bacteria and bacteriophages to illustrate basic genetic principles and to investigate population genetics, linkage and recombination, and biochemical genetics; techniques used in human genetics and cytogenetics.—F. Warburton.

Prerequisite: Course 5.

Enrollment limited to 12 students.

2 points.

Tu 1:10-5:00.

15x. Vertebrate Zoology

A systematic survey of the Phylum Chordata with an emphasis on reptiles, birds, and mammals. Topics include fossil history, biogeography, systematics, natural history, body architecture, energetics, locomotion, feeding, and behavior.

Biological Sciences

Prerequisites: Course 1-2 or its equivalent and permission of the instructor.

Enrollment limited to 16 students.

Offered in alternate years. Offered in 1981-82. 5 points.

Lecture Tu Th 10:35-11:50.

Laboratory Tu 1:10-5:00.

16x. Mammalian Physiology

Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine, and nervous systems in animals; emphasis on higher vertebrates and man.—Instructor to be announced.

Prerequisites: Three terms of biology, two terms of organic chemistry, or permission of the instructor.

3 points.

M W F 12:15-1:05.

18x. Laboratory in Physiology.

Physiographic recording of cardiac, respiratory and muscle function; small animal surgery; stereotaxic and histological confirmation of lesions. Additional laboratories in amphibian metamorphosis, enzyme kinetics, active transport, exercise physiology and renal function.—Instructor to be announced.

Corequisite or Prerequisite: Course 16.

Enrollment limited to 32 students.

2 points.

Th or F 1:10-5:00.

19x. Population and Community Ecology.

Introduction to major concepts and issues in evolutionary ecology; emphasis on such topics as life history strategies, population growth, competition, predator-prey interactions, population regulation, species diversity, community organization, biogeography. Lectures integrate recent theory with observational and experimental data.—P. Hertz.

Prerequisites: A year of college biology, one of the following: Course 3, 7, 10 or 15, and permission of the instructor.

Calculus is recommended.

Enrollment limited to 32 students.

Offered in alternate years. Offered in 1982-83. 5 points.

22y. Animal Behavior.

Introduction to animal behavior: physiological bases of behavior (sensory systems, neurophysiology of behavior, appetitive and reproductive behavior), traditional ethological approaches to behavior (communication, dyadic behavior, territoriality, dominance and aggression) and evolution of behavior (behavior genetics, ecological correlates, social behavior).—J. Chase.

Prerequisite: One year biology or one year psychology.

3 points.

Tu Th 9:10-10:25.

24y. Plant Development.

Processes of growth, differentiation and organization in plants; major morphogenetic events in the transition from zygote to flowering plant; hormonal and environmental effects and mechanisms of action. Laboratory utilizes whole plant, organ and cell cultures.—P. Ammirato.

Prerequisites: Course 1-2 or equivalent, one semester of organic chemistry, and written permission of the instructor.

Enrollment limited to 16 students.

Offered in alternate years. Offered in 1982-83. 5 points.

25y. Social Behavior of Animals.

Major concepts of social behavior such as altruism, degrees of relatedness, parental investment strategies, the ecological correlates of social organization. Overview of dyadic behavior—sex aggression, parental behavior, dominance, territoriality, and communication between animals—and social organization at different phyletic levels from invertebrates to man.—J. Chase.

Prerequisite: Course 1-2 or permission of the instructor.

Not offered in 1981-82.

3 points.

26y. History of Biology.

Growth of biological knowledge and ideas to the time of Darwin and Pasteur, and the paths leading to modern genetics, developmental biology, and evolutionary theory since then, in relation to concurrent developments in technology, medicine, and other sciences; religious, political and social influences on biological thought. Numerous excerpts from original biological writings will be examined.—F. Warburton.

Prerequisites: Course 1-2 or the equivalent, and one advanced biology course.

Offered in alternate years. Offered in 1982-83. 3 points.

28y. Comparative Histology.

Structural and physiological aspects of tissues and organs in vertebrate animals; advances in histological technology, correlations in light microscopic and electron microscopic studies of the structure of the basic types of tissues and their integration as organs, and modern concepts of function.—P. Dudley.

Prerequisites: Course 1-2 or its equivalent, one of the following: Course 7, 9, 12 or W 3041, and permission of the instructor.

Enrollment limited to 35 students.

Offered in alternate years. Offered in 1982-83. 3 points.

Biological Sciences

30y. Laboratory in Comparative Histology. Optional laboratory to be taken concurrently with Course 28. Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic and electron microscopic techniques.—P. Dudley.

Corequisite: Course 28. *Permission of the instructor required.*

Enrollment limited to 32 students.

Offered in alternate years. Offered in 1982-83. 2 points.

34y. Plant Physiology.

Processes of metabolism, nutrition, growth, and development of green plants: photosynthesis, respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer, translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy, senescence and death.—P. Ammirato. *Prerequisites: Course 1-2 or its equivalent, one term of organic chemistry and written permission of the instructor.*

Enrollment limited to 32 students.

Offered in alternate years. Offered in 1981-82. 5 points.

Lecture Tu Th 10:35-11:50.

Laboratory M or Tu 1:10-5:00.

38y. The Biology of Reproduction.

The diversity of reproductive strategies in animals; functional morphology, physiology and endocrinology of reproduction; pregnancy, placentation, parturition, lactation; reproductive efficiency, fertility, sterility.—S. Hampton. *Prerequisites: Course 1-2 or its equivalent; Course 9 or Psychology 54; or permission of the instructor.*

Enrollment limited to 40 students.

Offered in alternate years. Offered in 1981-82. 3 points.

Lecture Tu Th 9:10-10:25.

40y. Laboratory in Reproductive Biology.

Optional laboratory to be taken concurrently with Course 38. Assay systems for reproductive hormones. Spermatogenesis. *In vitro* and *in vivo* studies of oocyte maturation and fertilization; transfer of fertilized eggs to foster mothers, using rodents. Uterine and placental physiology. Experimental teratology.—S. Hampton.

Corequisite: Course 38.

Enrollment limited to 16 students.

Offered in alternate years. Offered in 1981-82. 2 points.

Laboratory Th 1:10-5:00.

99x, 99y. Problems in Biology.

Independent work planned to suit the needs of the student after consultation with the instructors.—Staff.

Prerequisite: *One year of general biology and permission of the instructor.*

4 points.

Hours to be arranged.

C 1007x. Introduction to Modern Biology.

S. Beychok and J. Manley.

4 points.

M W F 11:00 plus 2 hours recitation to be arranged.

C 1208. Introduction to Organismic and Evolutionary Biology of Animals.

W. Bock.

3 points.

M W F 11:00.

W 3002y. Introduction to Animal Structure and Function.

W. Bock.

6 points.

Lecture M W F 9:00.

Laboratory M Tu W F 1:10-5:00, or M W 6:10-10:00 PM (two 4-hour laboratories required).

W 3004x. Biology of Nerve Cells.

J. Hildebrand.

4 points.

M W 1:10-2:25 plus one hour to be arranged.

C 3006y. Project Laboratory in Neurophysiology and Neuroanatomy.

E. Macagno and S. Schuetze.

5 points.

Tu Th 2:00-6:00 and additional hours to be arranged.

C 3014y. Topics in Plant Biology.

A. Mancinelli.

Offered in alternate years. Offered in 1981-82. 3 points.

Tu Th 2:40-3:55.

W 3022x. Developmental Biology.

J. Harding.

3 points.

M W F 11:00.

C 3032y. Introduction to Genetics.

C. Levinthal and C. Prives.

3 points.

M W F 1:10.

W 3040x. Laboratory in Cell and Developmental Biology.

Instructor to be announced.

5 points.

Lecture Tu 12:10-1:00.

Laboratory Tu 2:10-6:00, W 1:10-5:00, Th 5:10-9:00. Additional hours Tu 6:10-10:00, W 5:10-9:00, F 1:10-5:00.

W 3041y. Cell Biology and Physiology.

E. Holtzman.

4 points.

Tu Th 11:00-12:30. Half-hour discussion periods follow most class sessions.

Biological Sciences

W 3048x. Project Laboratory in the Photo-regulation of Biological Processes.

A. Mancinelli.

5 points.

Laboratory M W F 2:00-5:00 plus additional hours to be arranged.

C 3052x. Project Laboratory in Molecular Genetics.

C. Squires.

5 points.

Laboratory Tu Th 1:00-5:00 plus additional hours to be arranged.

C 3064x. Molecular Genetics.

G. Zubay.

3 points.

Tu Th 10:35-11:50.

W 3073x. Cellular and Molecular Immunology.

M. Zauderer.

3 points.

Tu Th 9:10-10:25.

W 3074y. Seminar and Laboratory in Cellular Immunology.

M. Zauderer.

3 points.

Seminar and Laboratory W 1:10-5:00.

C 3094x. The Biosphere.

A. Mancinelli.

Offered in alternate years. Offered in 1982-83.

3 points.

W 3095x. Photobiology.

A.L. Mancinelli.

Offered in alternate years. Offered in 1981-82.

3 points.

Tu Th 4:10-5:25.

C 3292y. Quantitative Modeling in Biology and Medicine.

B. Singer.

3 points.

Tu Th 10:25-11:50.

Biology-Chemistry C 3501x. Biochemistry I.

S. Beychok and A. Tzagoloff.

4 points.

M W F 10:00 plus one hour recitation to be arranged.

Chemistry

Office: 802 Altschul Hall

Telephone: 280-3628

Professor

Bernice G. Segal (Chairman)

Visiting Professor

Donald W. Rogers¹

Associate Professors

Sally Chapman, Barry M. Jacobson

Assistant Professor

Leslie Lessinger

Lecturers

Grace W. King, Clara Wu

Associates

Eva Gans, Barbara Goodstein, Olympia Jebejian, Helena Otsa, David Philips

¹Spring term only

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken an Advanced Placement course in secondary school may be given advanced placement and credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two year chemistry requirement for medical school should take Chemistry 1, *General Chemistry*; Chemistry 28, 30 and 31, *Organic Chemistry I and II* with laboratory; Chemistry 32, *Intermediate General Chemistry*; and Chemistry 38, *Quantitative and Instrumental Techniques Laboratory*.

The fee of \$28 per laboratory course covers the cost of non-returnable items, chemicals, and other consumable supplies, as well as reasonable breakage. In addition, students may be charged for excessive breakage.

REQUIREMENTS FOR THE MAJOR

Two majors are offered by the department, in chemistry and biochemistry. The same major examination is required for both chemistry and biochemistry; there is no senior essay required for either.

Chemistry

A student who is interested in chemistry should consult any member of the department during her freshman year. In the first year she should take Chemistry 1, 28, and 30, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.

Chemistry

Fifteen courses are required for the major:

Chemistry 1	<i>General Chemistry</i>
Chemistry 28, 30, 31	<i>Organic Chemistry I with laboratory and II</i>
Chemistry 35	<i>Modern Techniques of Organic Chemistry Laboratory</i>
Chemistry 36	<i>Introductory Thermodynamics and Kinetics</i>
Chemistry 40	<i>Quantitative and Instrumental Techniques Laboratory</i>
Chemistry 63	<i>Atomic and Molecular Structure</i>
Chemistry 64	<i>Applied and Statistical Thermodynamics</i>
Chemistry 68	<i>Advanced Chemistry Laboratory</i>

(For 63 and 68, Chemistry 61 and Chemistry 70, which have the same titles but different structures, may be substituted.)

Physics V1103-V1104	<i>General Physics</i>
Mathematics	<i>Calculus, I(II, and III in any sequence (A, B, or C)</i>
<i>Recommended: Calculus IV and an advanced inorganic chemistry course.</i>	

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Students interested in taking Chemistry 99 should consult with individual faculty members about the research problems currently being investigated.

Biochemistry

Nineteen courses are required for the major, of which 3 are electives.

Chemistry 1, 28, 30, 31, and 40;	
Chemistry 36 and 64 (or Chemistry V 3059-V 3060, <i>Introductory Physical Chemistry I and II</i>);	
Biology 1, 2	<i>General Biology</i>
Physics V 1103-V 1104	<i>General Physics</i>
Calculus I, II and III	
Biology-Chemistry C 3501 and G 4502	<i>Biochemistry I and II</i>
Two advanced laboratory courses to be selected from an approved list of Biology and Chemistry courses; and	
One advanced lecture course to be selected from an approved list of Biology and Chemistry courses.	

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination may be obtained from any member of the department.

REQUIREMENTS FOR THE MINOR

Six courses are required for the minor: Chemistry 1, 28, 30, 31, 33, and 38, plus one of the following three: Chemistry 32, 36, or V 3059.

Chemistry

COURSES OF INSTRUCTION

1x. General Chemistry I.

Particulate nature of matter in various states; chemical transformations of matter, especially of ionic substances; properties of gases and kinetic theory, solutions, equilibrium, oxidation-reduction reactions and thermochemistry; laboratory experience with both qualitative and quantitative techniques.—B. Segal, G. King and associates.

Prerequisite: Algebra (Math SAT score of 550 for freshmen).

Enrollment in laboratory sections limited to 190 students.

5 points.

Lecture Tu Th 9:10-10:25.

Recitation one afternoon: M Tu W Th or F 1:10-2:00.

Laboratory same afternoon as recitation M Tu W Th or F 2:00-5:00 or Th 10:35-1:35, and if warranted by registration, Tu 10:35-1:35. Students in the morning lab must choose a M, Tu, or W recitation.

2y. General Chemistry II.

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; chemistry of selected elements with attention to carbon; selected topics in environmental chemistry and biochemistry.—S. Chapman, G. King and associates.

Prerequisite: Course 1 or permission of the instructor. Students who have completed Course 30 or its equivalent may not subsequently receive credit toward the degree for Course 2. Primarily for majors in fields other than science.

5 points.

Lecture Tu Th 9:10-10:25.

Recitation and laboratory one afternoon Tu or W 1:10-5:00.

28v. Introductory Organic Chemistry

Laboratory.

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds and techniques of compound preparation.—B. Jacobson and associates.

Prerequisite: Course 1 or equivalent with grade of C- or better, or Courses 1 and 2 or equivalent.

Corequisite: Course 30 or equivalent.

Enrollment limited to 144.

2½ points.

Lecture one afternoon M Tu W Th or F 1:00-1:50.

Laboratory same afternoon as lecture M Tu W Th or F 1:50-5:30.

30y. Organic Chemistry I.

Atomic and molecular structure; an introduction to aliphatic and aromatic chemistry with emphasis on modern theories; basic organic reaction mechanisms, stereochemistry and spectroscopy.—B. Jacobson.

Prerequisite: Course 1 or equivalent with a grade of C- or better, or Courses 1 and 2 or equivalent.

3 points.

Lecture Tu Th 9:10-10:25.

Problem section W 12:00.

31x. Organic Chemistry II.

Continued treatment of the topics of Organic Chemistry I with extensions and an introduction to biological compounds and bio-macromolecules.—B. Jacobson.

Prerequisite: Course 30. Required for biology majors and premedical students.

3 points.

M W F 10:00.

Problem section Tu 12:00.

32y. Intermediate General Chemistry.

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry 36 or V3059. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry, with applications to analytical chemistry and biochemistry.—L. Lessinger.

Prerequisite: Course 1 and Organic Chemistry 1. Course 30 may be taken as a corequisite with permission of the instructor.

Optional parallel laboratory work: one afternoon under Course 38.

3 points.

M W F 10:00.

33x. Modern Techniques of Organic Chemistry Laboratory.

Introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods.—B. Jacobson and associates.

Prerequisites: Courses 28 and 30. Corequisite: Course 31. Suitable for premedical and biological science students but not required by all medical schools.

Enrollment limited to 12 students.

3 points.

Lecture Th 1:10.

Laboratory one afternoon Tu 1:10-5:00 or F 1:10-5:00.

35x. Modern Techniques of Organic Chemistry Laboratory.

Identical with Course 33, but with a library problem, a short project and additional preparative experiments.—B. Jacobson and associates.

Prerequisites: Courses 28 and 30. Corequisite: Course 31. Chemistry majors must take this course, but it is not required by medical schools. Enrollment limited to 15 students.

5 points.

Lecture Th 1:10.

Laboratory two afternoons Tu 1:10-5:00, Th 2:10-6:00 plus two additional hours to be arranged.

36y. Introductory Thermodynamics and Kinetics.

Introduction to chemical kinetics, the laws of thermodynamics, and a study of ionic solutions and crystals.—B. Segal.

Prerequisites: Course 30, Calculus I and II, and preceding or parallel Physics V1103-V1104 and Calculus III. Recommended parallel: Course 40.

4 points.

Lecture Tu Th 9:10-10:25 and F 12:00.

38y. Quantitative and Instrumental Techniques Laboratory.

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computer programming is provided.—S. Chapman and associate.

Prerequisite: Course V3059 or corequisite: Course 32 or 36.

Suitable for premedical and biological science students.

3 points.

Lecture Tu 1:10.

Laboratory Tu 2:10-6:00 or Th 1:10-5:00.

40y. Quantitative and Instrumental Techniques Laboratory.

Identical with Course 38 except that a greater variety of experiments is offered, with more individual options.—S. Chapman and associate.

Prerequisite: Course V3059 or Corequisite: Course 32 or 36.

Required of chemistry and biochemistry majors and suitable also for premedical and biological science students.

5 points.

Lecture Tu 1:10.

Laboratory two afternoons Tu 2:10-6:00 and Th 1:10-5:00.

V3059x. Introductory Physical Chemistry I.

Thermodynamics, physical chemistry of solutions, chemical equilibria including acid-base equilibria, electrochemistry.—S. Chapman.

Prerequisite: Organic Chemistry II, Calculus I and II, and Physics V1103-V1104, or the equivalents.

Intended for majors in biochemistry and biology, and premedical students.

3 points.

Recommended laboratory: Course 38 or 40.

Lecture M W F 11:00.

Recitation hour W 12:00.

V3060y. Introductory Physical Chemistry II.

Kinetic theory, chemical kinetics, transport properties, surfaces, macromolecules, quantum chemistry, and spectroscopy.—D. Rogers.

Prerequisite: Course V3059 or permission of the instructor.

3 points.

M W F 11:00.

61x. Atomic and Molecular Structure.

Introduction to quantum chemistry and spectroscopy.—L. Lessinger.

Prerequisite: Course 36, Physics V1103-V1104, and Calculus III. Calculus IV is recommended.

4 points.

Lecture M W F 11:00, Tu 12:00.

63x. Atomic and Molecular Structure.

Lectures of Course 61 plus laboratory experience with various types of spectroscopy.—L. Lessinger.

Prerequisite: Course 36 and 40, Physics V1103-V1104, and Calculus III. Course 35 and Calculus IV are recommended.

6 points.

Lecture M W F 11:00, Tu 12:00.

Laboratory W 1:00-5:00 and if warranted by registration M 1:00-5:00.

64y. Applied and Statistical Thermodynamics.

Thermodynamics of real gases and solutions; phase equilibria; kinetic theory of gases; statistical thermodynamics, partition functions, equilibrium.—B. Segal.

Prerequisite: Course 30, 36, Physics V1103-V1104, and Calculus III. Course 61 and Calculus IV are recommended.

4 points.

Lecture M W F 11:00, M 12:00.

65x. Advanced Chemistry Laboratory.

Laboratory experience with various types of spectroscopy. Identical with the laboratory part of Course 63.—L. Lessinger.

Prerequisite: Course 61.

2 points.

W 1:00-5:00.

Chemistry

68y. Advanced Chemistry Laboratory.

Preparation and characterization of inorganic compounds; experiments in kinetics, spectroscopy, and electrochemistry using instrumental methods; some experience with computer programming is provided.—L. Lessinger and C. Wu.

Prerequisite: Course 36 or V3059, and Course 40 or equivalent. Course 35 is recommended.
3 points.

Lecture Tu 12:00.

Laboratory one afternoon M or W 1:10-5:00.

70y. Advanced Chemistry Laboratory.

Identical with Course 68 except that twice as many experiments are performed.—

L. Lessinger and C. Wu.

Prerequisite: Course 36 or V3059, and Course 40 or equivalent. Course 35 is recommended.
5 points.

Lecture Tu 12:00.

Laboratory two afternoons M W 1:10-5:00.

99x, 99y. Problems in Chemistry.

Advanced individual laboratory projects for students who have completed the major requirements.—Staff.

Prerequisite: Completion of major laboratory Courses 35 and 40. For some projects, Course 70 is also required. Permission of the instructor required.

4 points.

Eight hours by arrangement.

Attention is called to the following courses offered elsewhere in the University.

Biology-Chemistry C3501x. Biochemistry I.

S. Beychok and A.A. Tzagoloff.

4 points.

M W F 10:00.

Biology-Chemistry G4502y. Biochemistry II.

J. Greer and instructor to be announced.

4½ points.

Tu Th 9:10.

Chemistry C3071y. Introduction to Inorganic Chemistry.

W.G. Klemperer.

3 points.

M W F 9:00.

Chemistry G4103x. Inorganic Chemistry.

S.J. Lippard.

4½ points.

Tu Th 9:10.

Chemistry G4131x. Introductory Quantum Chemistry.

R. Bersohn.

4½ points.

Tu Th 10:35.

Chemistry G4147x. Advanced Organic Chemistry.

N.J. Turro.

4½ points.

M W F 9:00.

Chemistry G4170x. Biological and Biophysical Chemistry.

C.R. Cantor.

4½ points.

M W F 10:00.



Classics

Office: 216 Milbank Hall

Telephone: 280-2852

Professor

Helen H. Bacon

Visiting Professor

Eleanor W. Leach

Associate Professor

Lydia H. Lenaghan¹

Assistant Professor

Helene P. Foley (Acting Chairman)

Assistant Professor of Modern Greek

Dorothy Gregory

Other officers of the University offering courses in Classics:

Professors

Alan D.E. Cameron,² Steele Commager, James A. Coulter, Leonardo Tarán

Associate Professors

Roger S. Bagnall, Peter R. Pouncey³

Assistant Professors

Robert D. Brown,² W. Thomas MacCary, Michele Salzman, Matthew S. Santirocco

¹Absent on leave, 1981-82

²Absent on leave, Autumn Term

³Absent on leave, Spring Term

The objectives of the department are to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek and Latin either by completing Greek 11, *Prose and Poetry*, and Greek 12, *Selections from Homer*; or by completing Latin 3, *Cicero: Selections*, and Latin 4, *Vergil: Selections from the Aeneid*; or by completing one semester of study above Greek 12 or Latin 4 (or the equivalent Columbia courses); or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin. Students may fulfill the language requirement in Modern Greek by completing Modern Greek 4, *Intermediate Course II*.

Only Greek courses numbered 3305 and above, and Latin courses numbered 3012 and above may be used to satisfy distribution requirements.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Medea*, *Alcestis*, *The Persians*, and *The Eumenides* which have proved not only satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting

Classics

Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

REQUIREMENTS FOR THE MAJOR

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139
Greek W 4105-W 4106

and five others.

Greek Syntax
History of Greek Literature

In Latin, this would be fulfilled by taking

Latin W 4139
Latin W 4105-W 4106

and five others.

Latin Syntax
History of Latin Literature

A student may elect to major in both Greek and Latin by completing the major requirements in one language and 5 courses above the elementary level in the other.

REQUIREMENTS FOR THE MINOR

The minor in Classics requires five courses above the elementary level.

COURSES OF INSTRUCTION

CLASSICS IN TRANSLATION

Classical Literature 32x. Classical Myth.

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid).—E. Leach.

3 points.

M W F 11:00.

Classical Literature V 3123y. Greek Drama and Its Influences.

Evolution of various types of tragedy and comedy from the 5th century B.C. in Athens to the 1st century A.D. in Rome; relation of these forms to later European dramatic forms; theories of comedy and tragedy including those of Aristotle; the production of plays.—H. Foley.

3 points.

M W F 11:00.

Classical Literature W 4300x. The Classical Tradition.

Social, political, intellectual, and religious contexts in which epic, lyric, tragic and comic poetry originally developed in Greece; Roman adaptations and their influence on modern poets.—M. Santirocco.

3 points.

Tu Th 6:10-7:25.

Classical Civilization V 3158y. Women in Antiquity.

Role of women in ancient Greek and Latin literature; portrayal of women in literature as compared with their actual social status; male and female in ancient Mediterranean cosmologies; readings from ancient epic, lyric, drama, history and historical documents, medical texts, oratory and philosophy as well as contemporary sociological and anthropological works which will help to analyze the origins of the Western attitude towards women.—H. Foley.

Offered in alternate years. Offered in 1982-83.

3 points.

Classical Civilization V 3162y. Ancient Law.

Greek and Hellenistic legal systems. Roman law until the time of Justinian; development of law, legal codes as an expression of the nature of society which produced them. —R. Bagnall.

Not offered in 1981-82.

3 points.

Classical Civilization V3163x. The Greek Historical Tradition.

Greek conceptions of how history is made; determining influences such as divine interference, individual human exploits, chance; analysis of epic, philosophical, and historical texts.—P. Pouncey.

Not offered in 1981-82.

3 points.

GREEK LANGUAGE AND LITERATURE

1x-2y. Elementary Full-Year Course.

Grammar, composition, and reading. In Greek 2 a dialogue of Plato, generally the *Apology*, will be read.—H. Foley.

Course 1 is prerequisite to Course 2.

4 points.

M W F 9:35-10:50.

W 1101x-W 1102y, W 1102x-W 1101y. Elementary Course.

Equivalent to Course 1-2.

4 points.

W 1101x-W 1102y; M W F 11:00-12:15. J. Coulter.

W 1102x-W 1101y; M W Th 6:10-7:25. Instructor to be announced.

11x. Prose and Poetry.

Selections from Herodotus and relevant archaic poetry; Herodotus' historiographical and literary techniques and his themes. There will be weekly assignments to review forms and syntax.—H. Foley.

Prerequisite: Greek 1-2 or W 1101-W 1102.

3 points.

M W F 11:00.

W 1201x. Prose and Poetry.

Equivalent to Course 11.—L. Tarán.

Prerequisite: Greek 1-2 or W 1101-W 1102.

4 points.

Tu Th 4:10-5:25.

12y. Selections from Homer.

Detailed grammatical and literary study of several books of the *Iliad* or *Odyssey*, and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer.—H. Bacon.

Prerequisite: Course 11 or permission of the instructor.

3 points.

M W 1:10-2:25.

W 1202y. Homer.

Equivalent to Course 12.—J. Coulter.

Prerequisite: Course 11 or permission of the instructor.

4 points.

M W 2:40-3:55, F 10:00.

V 3305x. Tragedy.

Greek tragedy with emphasis on the dramatist's use of myth, language and meter.—T. MacCary.

Prerequisite: Courses 11 and 12, or their equivalents.

Offered in alternate years. Offered in 1982-83.

3 points.

V 3306x. Historians.

Prerequisite: Courses 11 and 12, or their equivalents.

Offered in alternate years. Offered in 1982-83.

3 points.

V 3307x. Comedy.

One play and parts of other plays of Aristophanes; a fragment of Menander; the structure and techniques of old and new comedy, comic theory, and the relation of the comic poet to his society.—H. Foley.

Prerequisite: Courses 11 and 12, or their equivalents.

Offered in alternate years. Offered in 1981-82.

3 points.

M W 2:40-3:55.

V 3308y. Philosophy.

Plato's *Symposium*. A detailed study of the dialogue, with special attention to the relation between form and content of each speech and of the work as a whole. The interrelation between the speeches will also be considered.—L. Tarán.

Prerequisite: Courses 11 and 12, or their equivalents.

Offered in alternate years. Offered in 1981-82.

3 points.

Tu Th 10:35-11:50.

V 3309y. Selections from Greek Literature, I.

Content of course changes each year; it may be taken in consecutive years. Topic for 1981-82: readings in Herodotus. Passages selected from the whole work, emphasizing his historiographical and geographical assumptions.—P. Pouncey.

Prerequisite: Courses 11 and 12, or their equivalents.

3 points.

Tu Th 1:10-2:25.

V 3310y. Selections from Greek Literature, II.

Content of course changes each year; it may be taken in consecutive years. Topic for 1981-82: Pindar. Selections from the victory odes; consideration of the place and importance of athletic games in fifth century Greek culture.—T. MacCary.

Prerequisite: Courses 11 and 12, or their equivalents.

3 points.

Tu Th 2:40-3:55.

W 4139x. Greek Syntax.

Writing of sentences and connected passages in Greek.—J. Coulter.

Prerequisite: At least four terms of Greek or equivalent.

3 points.

Tu 11:00-12:50.

V 3997x, V 3997y. Directed Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff.

Permission of the chairman of the department required.

3 points.

Hours to be arranged.

Classics

V 3998x, V3998y. Supervised Research in Greek Literature.

Program of research in Greek literature, with the composition of a paper embodying results.—Staff.

Permission of the chairman of the department required.

3 points.

Hours to be arranged.

W 4105x-W 4106y. History of Greek Literature.

Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D.—x: T. MacCary; y: D. Frame.

Prerequisite: At least two terms of Greek beyond Courses 11 and 12.

4 points.

Tu 4:10-6:00, Th 4:10-5:00.

LATIN LANGUAGE AND LITERATURE

1x-2y. Elementary Full-Year Course.

Autumn: Grammar, composition, and reading. Spring: Complete review of grammar and syntax; emphasis on representative readings.—H. Bacon.

Course 1 is normally prerequisite to Course 2. Course 2 may be taken without Course 1 by permission of the instructor.

4 points.

M W F 11:00-12:15.

W 1101x-W 1102y. Elementary Course.

Equivalent to Course 1-2.—Staff.

4 points.

Section I M W F 11:00-12:15.

Section II M W F 2:40-3:55.

Section III M W Th 6:10-7:25.

W 1101y-W 1102x. Elementary Course.

Equivalent to Course 1-2, but given in the Spring and Fall.—Staff.

4 points.

Section I M W F 1:10-2:25.

Section II M W Th 6:10-7:25

3x. Cicero: Selections.

Cicero's *Pro Caelio* and relevant selections from Catullus and Sallust to illustrate the social, political, and intellectual character of the Ciceronian age. Weekly assignments designed to review forms and syntax.—Instructor to be announced.

Prerequisite: Courses 1-2 or 2-3 years high school Latin.

3 points.

M W F 10:00.

W1201y. Cicero.

Equivalent to Course 3.—Staff.

Prerequisite: Courses 1-2 or 2-3 years high school Latin.

4 points.

M W 2:40-3:55, F 10:00.

4y. Vergil.

Selected books of the *Aeneid* with attention to meter, the epic form, and the literary and political issues of the Augustan age.—H. Bacon.

Prerequisite: Courses 1-2 or 2-3 years high school Latin.

3 points.

M W F 10:00.

W 1202x. Vergil.

Equivalent to Course 4.

Prerequisite: Courses 1-2, or 2-3 years high school Latin.

4 points.

Section I M W 2:40-3:55, F 10:00. Instructor to be announced.

Section II M W 6:10-7:25, F 10:00. Instructor to be announced.

W 1203y. Ovid: Selections from the Metamorphoses.

S. Commager.

Prerequisite: Courses 1-2, or 2-3 years high school Latin.

4 points.

M W 4:10-5:25, F 10:00.

V 3012x, V 3012y. Lyric Poetry.

Selections from Catullus' polymetric poems and epigrams and from Horace's *Odes* and *Epodes*. The course combines literary analysis with work in grammar and metrics.—x: S. Commager. y: E. Leach.

Prerequisite: Course 4 or four years of high school Latin.

3 points.

x: M W 4:10-5:25.

y: M W 1:10-2:25.

33y. Medieval Literature.

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography.—L. Lenaghan.

Prerequisite: Three semesters of college Latin or permission of the instructor.

Not offered in 1981-82.

3 points.

V 3305x. Historians.

Prerequisite: Course V 3012 or the equivalent.

Offered in alternate years. Offered in 1982-83.

3 points.

V 3306y. Roman Satire.

Horace and Juvenal and their imitators in English verse.—S. Commager.

Prerequisite: Course V3012 or the equivalent.

Offered in alternate years. Offered in 1982-83.

3 points.

V 3307x. Elegiac Poetry.

Selections from Tibullus, Propertius, and Ovid.—S. Commager.

Prerequisite: Course V 3012 or the equivalent.
Offered in alternate years. Offered in 1981-82.
3 points.

M W 2:40-3:55.

V 3308y. Philosophy.

Selections from the *De Rerum Natura* of Lucretius. The poetic presentation of Epicurean theories about matter, the soul, death and civilization.—R. Brown.

Prerequisite: Course V 3012 or the equivalent.
Offered in alternate years. Offered in 1981-82.
3 points.

Tu Th 10:35-11:50.

V 3309x. Selections from Latin Literature, I.

Content of course changes each year; it may be taken for credit in consecutive years. Topic for 1981-82: Roman art and literature. Substantial readings in Latin literature; examination of selected works of art; discussion of style, cultural ideologies and social change.—E. Leach.

Prerequisite: Course V 3012 or the equivalent.
3 points.

M W 1:10-2:25.

V 3310y. Selections from Latin Literature, II.

Content of course changes each year; it may be taken for credit in consecutive years. Topic for 1981-82: a study of politics and imperial administration, society and domestic life, and intellectual aspirations, based on the letters of Pliny.—A. Cameron.

Prerequisite: Course V 3012 or the equivalent.
3 points.

M W 11:00-12:15.

W 4139x. Latin Syntax.

Writing of sentences and connected passages in Latin.—M. Salzman.

Prerequisite: At least four terms of Latin or the equivalent.

3 points.

Tu 11:00-12:50.

V3997x, V 3997y. Directed Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff.

Permission of the chairman of the department required.

3 points.

Hours to be arranged.

V 3998x, V 3998y. Supervised Research in Latin Literature.

A program of research in Latin literature, with the composition of a paper embodying results.—Staff.

Permission of the chairman of the department required.

3 points.

Hours to be arranged.

W 4105x-W 4106y. History of Latin Literature.

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D.—x: M. Santirocco; y: M. Salzman.

Prerequisite: At least two terms of Latin beyond Course V 3012.

4 points.

Tu 4:10-5:00, Th 4:10-6:00.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman and the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

MODERN GREEK LANGUAGE AND LITERATURE

1x-2y. Elementary Full-Year Course.

Introduction to Demotic Greek; emphasis on both speaking and writing; basic grammar and syntax; pattern practice reinforced by laboratory attendance; easy reading.—D. Gregory.

Work in the language laboratory is required.
3 points.

Tu Th 2:30-4:00.

3x. Intermediate Course, I.

More complex and idiomatic Greek through a variety of readings, including selections from Kazantzakis' *Report to Greco* and short stories by Myrivilis and Venezis; grammar and syntax review; conversation; short weekly compositions.—D. Gregory.

Prerequisite: Courses 1-2 or the equivalent.
3 points.

Tu Th 4:10-5:25. Additional hour for conversation M 12:00-1:00.

4y. Intermediate Course, II.

Selected readings from Modern Greek literature, both poetry and prose, annotated and presented in order of difficulty, used as a basis for discussion and composition. Poems by Sologmos, Palamas, Cavafy, Seferis; short stories and essays by Theotokas, Terzakis and others. The improvement of the student's language skills is still a primary goal.—D. Gregory.

Prerequisite: Course 3 or the permission of the instructor.

3 points.

Tu Th 4:10-5:25.

An additional hour for conversation M 12:00-1:00.

Classics

5x. Prose of the Twentieth Century: 1930-1950.

Four works representing the main trends of twentieth-century prose up to the Civil War: Myrivilis' *Life in the Tomb*, Venezis' *Aeolian Land*, Petsalis-Diomedes' *The Bell of Holy Trinity*, and Kazantzakis' *The Fratricides*. Although this course is primarily a study of prose, the main themes will be highlighted by a few relevant poems by Cavafy, Sikelianos and Seferis.—D. Gregory.

Prerequisite: Course 4 or permission of the instructor.

3 points.

Tu Th 10:35-11:55.

6y. Contemporary Prose and Poetry.

Prose and poetry: selections from a few important works written after 1950: Samarakis' *I Refuse*, Vassilikos' *The Leaf, The Well, The Angel*, Margarita Lymberaki's *The Other Alexander*, Seferis' *Logbook III*, Ritsos' *Romiosini, Moonlight Sonata, Repetitions*, and Elytis' *The Axion Esti*.—D. Gregory.

Prerequisite: Course 5 or permission of the instructor.

3 points.

Tu Th 10:35-11:55.

Computer Science

Office: 406 Seeley W. Mudd

Telephone: 280-2736

Officers of the University offering courses listed below:

University Professor

Samuel Eilenberg

Professors

Theodore R. Bashkow, Jonathan L. Gross, Omar Wing, Joseph F. Traub (Chairman), Stephen H. Unger

Adjunct Professors

Alfred Aho, Bruce Gilchrist, Charles Michelli

Adjunct Associate Professor

Howard Eskin

Assistant Professors

John Kender, Michael Lebowitz, Uri N. Peled, David E. Shaw, Salvatore J. Stolfo (Program Consultant, 1330 SW MUDD), Yechiam Yemini

Adjunct Assistant Professor

Glen Miranker

Lecturers

David Bantz, Fred Cohen, Jacob Gielchinsky, E. Ward Klein, Theodore Mankovich

The spectrum of computer science ranges from the analysis of problems in a great variety of applications to the design of the machines that effect the solutions, and it includes all the linking steps between them. Computer scientists are interested not only in mathematics and engineering, but also in the sources of the problems, wherever they lie. Thus, although most recent graduates in Computer Science are now in computer science proper, either in industry or in graduate degree programs, many are in medical school, business school, or other such activities, planning to combine computer science with another strong interest in their careers.

The Computer Science curriculum has a double core, partially in areas with an immediate relationship to the computer, such as programming languages, compilers, operating systems, and computer architecture, and partially in theoretical computer science and mathematics. A broad range of upper level courses is available in topics such as artificial intelligence, computational complexity, and the analysis of algorithms, combinatorial methods, computer circuitry, data bases, mathematical models for computation, optimization, and software systems. Thus, students obtain the background to pursue their interests both in applications and in theoretical developments.

The Computer Center operates two interactive systems, making nearly 100 terminals available at convenient locations on the Columbia campus, including some dormitories, with PDP-11 and a DEC-20. It also operates a major research facility with an IBM. In addition, a small but powerful minicomputer is available for faculty and student research. Most important computer languages are supported, including ALGOL, APL, BASIC, COBOL, FORTRAN, LISP, PASCAL, PL/I and SNOBOL. Additional equipment acquisitions are planned.

In addition to course work, students sometimes assist faculty members on research projects or on the development of software. Qualified majors often serve as consultants at the Computer Center.

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. This is usually W 1001, *Introduction to Computer Programming, A*. There is also an intermediate course for nonmajors or majors, W 3011, *Intermediate Computer Programming*. By taking one or both of these courses early in their college years, students are able to use the computer in their upper-level studies.

Computer Science

REQUIREMENTS FOR THE MAJOR

Students who plan a major in Computer Science should see the Program Consultant during the sophomore year.

A total of 13 courses are required for the major.

W 1001 or W 3011 (preferably in the freshman year)

W 3203

Mathematics

W 3131

W 3232

W 3261

W 3123

W 3202

Introduction to Discrete Mathematics

(before the end of the sophomore year)

Calculus I and II (before the end of the sophomore year)

Data Structures

Fundamental Algorithms

Computability and Formal Languages

Assembly Language and Computer Logic

Finite Mathematics

and four additional courses to be selected from computer science, mathematics, or statistics, at least one of which must be selected from the following list of computer science courses: W 4115, W 4117, W 4118, W 4152, W 4241, W 4242, W 4705.

REQUIREMENTS FOR THE MINOR

No minor is offered in Computer Science.

COURSES OF INSTRUCTION

W 1001x, W 1001y. Introduction to Computer Programming, A.

Intended primarily for students in the Arts and Sciences divisions. General introduction to computer programming. Emphasis on learning to write programs to solve problems in familiar applications, such as payroll, computer-assisted instruction, ecology, library science, literary text analysis, cryptology, and game playing. Rudiments of structured programming. BASIC.—Instructor to be announced.

Laboratory fee \$20.

3 points.

Section I M W 1:10-2:25.

Section II M W 6:10-7:25.

with engineering applications. Structured program design. FORTRAN. Since each section of this course is limited in size, section approval must be obtained in Computer Science Department office prior to registration.

—Instructor to be announced.

Laboratory fee \$20.

3 points.

Section I M W 11:00-12:15.

Section II Tu Th 10:30-11:50.

Section III M W 4:10-5:25.

Section IV Tu Th 5:40-6:55.

W 3011x, W 3011y. Intermediate Computer Programming.

Continuation of introductory courses; simple record structures and file processing, in both advanced BASIC and PASCAL; systems of programs and files; modeling; round off error; elementary principles of machine language and assembly language coding.—Instructor to be announced.

Prerequisite: Course W 1001 or W 1005.

3 points.

x: M W 7:40-8:55.

y: Hours to be arranged.

W 3123x. Assembly Language and Computer Logic. (formerly E 3823)

Assembly and machine language programming techniques; data representation; introduction to machine organization and logic circuits.—T. Bashkow.

W 1005x, W 1005y. Introduction to Computer Programming, C. (formerly E 1801)

Intended primarily for engineering students. General introduction to computer programming,

Computer Science

Prerequisite: *Introduction to computer programming.*

3 points.

x: *Tu Th 1:10-2:25.*

W 3131x. Data Structures. (formerly E 3816)

Data types and structure: arrows, stacks, singly and doubly linked lists, queues, trees, sets, and graphs; programming techniques for processing such structures; recursive programming, internal sorting and searching, hashing, garbage collection; storage management; rudiments of the analysis of algorithms.—Y. Yemeni.

Prerequisite: *Course W 3203.*

Corequisite: *Course W 3011 or W 3823.*

4 points.

x: *Tu Th 9:10-10:25.*

y: *Tu Th 6:40-7:55.*

W 3203x, W 3203y. Discrete Mathematics. (formerly E 3803)

Mathematical induction, counting arguments, permutations; partially ordered sets, lattices; graphs and imbeddings, generating functions, recurrence relations; propositional calculus.—x: J. Gross; y: Instructor to be announced.

Prerequisite: *any introduction to computer programming.*

3 points.

x: *M W 1:10-2:25.*

y: *Hours to be arranged.*

W 3204y. Finite Mathematics.

Introduction to mathematical methods in the natural and social sciences: probability, the solution of systems of linear equations, introduction to linear programming and the theory of antagonistic games.—U. Peled.

Prerequisite: *Course W 3203.*

3 points.

M W 1:10-2:25.

W 3232y. Fundamental Algorithms.

Continuation of Course W 3131. Pattern matching, lexical analysis, parsing, backtracking, divide and conquer, generating combinatorial objects, graph searching, spanning trees, external sorting and searching, 2-3 trees, balanced trees, B- trees, files; elements of data base design; other topics as time permits. Analysis of algorithms is stressed throughout.—Instructor to be announced.

Prerequisite: *Course W 3131.*

3 points.

Tu Th 9:10-10:25.

W 3261y. Computability and Formal Languages. (replaces E 4833)

Formal models of computation and properties; Turing Machines, recursive functions; Church-Turing thesis; decidability and undecidability;

recursively enumerable sets; concepts and properties of formal languages; regular, context-free, context-sensitive, phrase-structured; grammars; relationships to automata; finite state, push-down, linear bounded, Turing machines.; —S. Eilenberg.

Prerequisite: *Course W 3131.*

3 points.

Tu Th 2:40-3:55.

W 3824y. Elements of Computer Organization.

Elements of computer design; logic design; subsystems, central processor, microprogram control, arithmetic units I/O organization, memories.—T. Bashkow.

Prerequisite: *Course W 3123.*

3 points.

Tu Th 1:10-2:25.

W 3998x, W 3998y. Undergraduate Projects in Computer Science.

This course may be repeated for credit, but not for a total of more than 3 points of degree credit. Independent project involving laboratory work, computer programming, analytical investigation, or engineering design.—Staff.

Prerequisite: *approval by a faculty member who agrees to supervise the work.*

Up to 3 points.

Hours to be arranged.

W 4001x, W 4001y. Computer Programming: Engineering Applications. (formerly E 4811)

Introduction to computer programming, emphasis methods and solutions for typical applications; problem analysis and program design methodologies; out formatting; deterministic and probabilistic simulating techniques; FORTRAN. Computer terminals are available for student use.—x: E. Klein; y: J. Gielchinsky.

Not open to students who have already received credit for an introductory programming course.

Laboratory fee \$20.

3 points.

x: *M W 6:10-7:25.*

y: *W 6:30-9:00.*

W 4114x, W 4114y. Assembly Language and Systems Programming. (formerly E 3814)

Assembly language programming; assemblers and macro processors; linkers and loaders; elements of job control language; large-scale programming environment.—x: J. Gielchinsky; y: Instructor to be announced.

Not allowed for credit if W 3123 is taken.

Prerequisite: *Any introductory course in computer programming.*

3 points.

x: *W 6:30-9:00.*

y: *Hours to be arranged.*

Computer Science

W 4115x. Programming Languages and Translators I. (formerly E 4815)

Programming languages SNOBOL, LISP, and ALGOL; implementation of recursive functions, assemblers, and compilers; introduction to the formal description of languages and syntax-directed compilation. Students are required to write programs to be run on the equipment at the Computer Center.—H. Eskin.
Prerequisite: Courses W 3123 or W 4114; W 3131.

3 points.

M W 5:40-6:55.

W 4117y. Programming Languages and Translators II. (formerly E 4817)

Continuation of Course W 4115. Techniques in computer language implementation; application of formal language theory to design of compilers; implementation of language features such as nested procedures, reentrancy and recursion; code optimization; run-time storage organization.—H. Eskin.

Prerequisite: Courses W 4115 and W 3261.

3 points.

M W 5:40-6:55.

W 4118x. Introduction to Operating Systems. (formerly E 4818)

Design and implementation of general purpose operating systems for digital computers: memory management, virtual memory, storage hierarchy evaluation, multiprogramming, process programming constructs, I/O device management, and file system implementation. Several operating systems, including OS/370 and UNIX, will be studied as examples.—Instructor to be announced.

Prerequisite: Course W 3131; W 3123 or W 4114.

3 points.

Tu Th 4:10-5:25.

W 4152y. Software Laboratory. (formerly E 4852)

Large-scale software design methodology; construction of software tools; parallel programming; case study of a medium-scale operating system; design and implementation of large-scale software projects.—Instructor to be announced.

Prerequisite: Course W 4118.

3 points.

M 9:00-11:00.

W 4203x. Graph Theory.

General introduction to graph theory, emphasizing algorithms: Eulerian paths and circuits, shortest paths, trees, minimum spanning trees, the number of spanning trees, depth-first search,

network flows, leipartite matching and the marriage problem, the transportation problem, minimum-cost flows, other topics as time permits.—U. Peled.

Prerequisite: Course W 3203.

Not offered in 1981-82.

4½ points.

W 4205x. Combinatorial Theory.

Permutations and combinations, generating functions, recurrence relations, the inclusion-exclusion method, Pólya's enumeration methods, other topics as time permits.—U. Peled.

Prerequisite: Course W 3203 and a course in calculus.

4½ points.

M W 1:10-2:25. Additional recitation section to be arranged.

W 4231x. Analysis of Algorithms, I.

Course E 6232 is a continuation of this course. Some of the topics described below will not be covered until E 6232. Representation and generation of combinatorial objects; methods for the analysis of algorithms: counting and asymptotic evaluation; analysis of sorting, searching, algorithms on graphs, operations on strings, arithmetic operations, matrix operations, Fourier transform; models of computation: the Turing machine model, the random-access model, circuit complexity and the VLSI model; probabilistic algorithms; elements of abstract complexity theory; complexity hierarchies; polynomial and NP problems; lower bounds on the complexity of various problems in various models; worst-case and average behavior of algorithms; diophantine complexity; applications to cryptography and public key systems; linear programming and its complexity; the simplex and khanian methods; average behavior of the simplex method. Other topics as time permits.—A. Aho.

Prerequisites: Course W 3131, W 3203.

3 points.

Hours to be arranged.

W 4241x. Numerical Analysis, I. (formerly G 4401)

Modern theory and practice of computation on digital computers. Covers design and analysis of numerical algorithms. Techniques for analyzing computational complexity and errors. Solutions of nonlinear equations, polynomial equations, linear systems, interpolation, approximation, eigenvalues and eigenvectors, optimization-ordinary and partial differential equations. Some of these topics are covered in the sequel, W 4242.—J. Traub.

3 points.

Tu Th 2:40-3:55.

Computer Science

W 4242y. Numerical Analysis, II. (formerly G 4402)

A continuation of W 4241.—C. Michelli.

Prerequisite: Knowledge of a programming language. Some knowledge of differential equations and linear algebra is desirable.

3 points.

Tu 6:10-8:40.

W 4261x. Computation Methods in Engineering Analysis and Design. (formerly E 4861)

Sparse matrix techniques; optimal ordering, data structures, diakoptics, eigenvalue problems; solution of large systems of nonlinear algebraic-differential equations: multistep, variable order, variable step methods; sensitivity analysis: adjoint systems, computation of gradient and Hessian and their use in system design by minimization techniques.—O. Wing.

Prerequisite: Engineering Mathematics E 3101 and an introductory course in computer programming.

3 points.

Hours to be arranged.

W 4400x. Computers and Society. (formerly E 4850)

The impact of computers on political, social, and economic processes. Evaluation of the positive and negative contributions of computers; case studies from banking law, medicine, and television; privacy and security of data banks; how society can direct the development of computer applications.—B. Gilchrist.

Prerequisite: an introductory course in computer programming.

2 points.

Tu Th 11:00-12:40.

W 4701x. Artificial Intelligence. (formerly G 4822)

This course is designed to give a senior level student a broad understanding of the basic techniques in use today for building intelligent computer systems. State-space representations, problem reduction, means-end analysis, and/or graphs. Heuristic searching: depth-first, breadth-first, best-first, hill-climbing, divide and conquer, minimax, α - β ; predicate calculus, resolution theorem proving; Horn clause theorem provers; AI systems and languages; goals and contexts; issues of knowledge representation; learning and concept formation; LISP programming; other topics as time permits.—S. Stolfo.

Prerequisite: Course W 3131.

3 points.

Tu Th 2:40-3:55.

W 4705y. Natural Language Processing.

An introduction to the artificial intelligence approach to human language processing. Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. Some prior or concurrent exposure to AI and LISP would be

Jul.—M. Lebowitz.

Prerequisite: W 3131.

3 points.

Hours to be arranged.

G 4801x. Mathematical Logic.

Introduction to mathematical logic. Fundamental notions of set theory and recursion theory; detailed discussion of propositional and predicate logic: completeness, (un-)decidability, and theorem-proving.—Instructor to be announced.

Prerequisite: Permission of the instructor.

3 points.

Tu Th 6:10-7:25.

Computer Science-Philosophy G 4802y. Mathematical Logic II.

Axiomatic set theory: ordinals, cardinals, the axiom of choice, models of set theory. Definability; hierarchies of sets of integers. Connections between set theory and theory of computability.—C. Parsons.

Prerequisite: G 4801 or equivalent.

3 points.

M W 11:00-12:15.

W 4995x, W 4995y. Special Topics in Computer Science.

Special topics arranged as the need and availability arises. Topics are usually offered on a one-time basis. This course may be repeated for credit.—Instructor to be announced.

Prerequisite: Permission of the instructor.

3 points.

Hours to be arranged.

W 4996x, W 4996y. Special Topics in Computer Science.

A continuation of Course W 4995, when the special topic is to be offered over two semesters. Instructor to be announced.

Prerequisite: permission of the instructor.

3 points.

Hours to be arranged.

Dance

Office: 204 Barnard Hall

Telephone: 280-2995

Professor

Jeanette Roosevelt (Chairman)

Associate Professor

Sandra Genter

Instructor

Sally Hess

Lecturer

A. Kisselgoff, Tobi Tobias

Associates

Janis Ansley, Cynthia Novack, Janet Soares

The Barnard Dance Department offers studio classes in modern dance, ballet, tap dance, and jazz. In addition, it offers skilled dancers the opportunity to perform in workshop presentations, in concerts, and in programs integrated with drama productions and those of other departments in the College. It sponsors symposia, master classes conducted by guest artists, and other special events. Interested students should confer with the dance faculty.

In keeping with the philosophy of liberal education, the dance course offerings aim to provide students with both conceptual and technical background in the craft of the art form today, as well as an understanding of its historical development. After graduation, a student interested in performance, choreography, or critical writing would continue to develop as an artist through the practice of the craft. Those interested in teaching, in dance therapy, in historical research, or in the specialized systems of dance notation would pursue further study in graduate school or in a special institute.

Students looking toward a career in dance performance or choreography should consult the announcement on the Program in the Arts, page 93, and should discuss their plans with the department chairman as soon as possible.

REQUIREMENTS FOR THE MAJOR (Program in the Arts)

Students wishing to major in Dance within the Program in the Arts are required to take the following twelve courses:

Arts 31	<i>Imagery and Form in the Arts</i>	Dance 61-62	<i>Dance Workshop I</i>
Arts 51	<i>Junior Colloquium</i>	Dance 63,64	<i>Dance Composition</i>
Arts 91	<i>Senior Seminar</i>	Dance 65, 66	<i>History of Dance</i>
		Dance 67	<i>Fundamentals of Music for Dancers</i>
		Dance 71-72	<i>Dance Workshop II</i>
		Dance 74	<i>Contemporary Choreographers and their Works</i>

REQUIREMENTS FOR THE MINOR

A total of 6 courses to be selected in consultation with the department chairman are required for the minor. The selection must include three from courses 61-62, 63, 64, and 71-72; and three from courses 65, 66, 67, 74 and 76.

COURSES OF INSTRUCTION

61x-62y. Dance Workshop I.

Studio work in advanced technique with readings and practice in functional anatomy for dancers and the application of Laban's effort-shape concepts to the study of movement description and dance style. Students read from assigned sources, participate in master classes, and keep journals.—S. Genter.

Prerequisite: Advanced skill in dance technique. Permission of the instructor required.

3 points.

M-F 12:00-1:30, plus individual consultation with the instructor.

63x. Form in Dance Composition.

Development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement.—J. Soares.

Prerequisite: Facility in dance technique. Permission of the instructor required.

Enrollment limited to 12 students.

3 points.

M W 1:30-3:00.

64y. Content in Dance Composition.

Research in the source materials of dance composition and exploration of their uses in choreography, including gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis on unity of style in the work of each student.—J. Soares.

Prerequisite: Facility in dance technique. Permission of the instructor required.

Enrollment limited to 12 students.

3 points.

M W 1:30-3:00.

65x, 66y. History of Dance.

Survey of the development, history, aesthetics, and philosophy of dance. Autumn Term: dance as ritual, dance in antiquity, folk and ethnic dance forms, and dance in the theater of the East. Spring Term: ballet and modern dance from the Renaissance to the present time.—J. Roosevelt.

3 points.

M W F 11:00.

67y. Fundamentals of Music for Dancers.

An intensive study of musicianship skills and musical literacy designed for students of dance. Analysis of the elements of rhythm, tonality, musical structure, texture and style, with laboratory work in ear-training, pitch reading, rhythm skills, score-reading and elementary composition.—E. Fleischer.

Not offered in 1981-82.

3 points.

71x-72y. Dance Workshop II.

Continued study in advanced technique, with additional independent projects in the analysis of dance technique, presented in monthly seminars in the Autumn Term, and the reconstruction and performance of works from the modern dance repertory through the use of Labanotation, videotape, and coaching from professional artists in the Spring Term.—J. Soares.

Prerequisite: Course 61-62. Permission of the instructor required.

3 points.

M-F 12:00-1:30. Repertory sessions to be arranged.

74y. Contemporary Choreographers and Their Works.

Form, style, and content of selected contemporary choreographers. Sources include film, videotape, attendance at rehearsals and concerts, and interviews.—Staff.

3 points.

F 2:10-4:00.

76y. Critical Writing on Dance.

Nineteenth and twentieth century dance criticism, with practice in writing descriptively about movement and in composing critical analyses of dance performances.—T. Tobias.

Prerequisites: Course 65-66 or the equivalent, and permission of the instructor.

Enrollment limited to 15 students.

Offered in alternate years. Not offered in 1981-82.

3 points.

STUDIO DANCE COURSES

Courses listed below may be offered in fulfillment of the physical education requirement.

Modern Dance

Technique of contemporary dance with particular emphasis on good alignment and an understanding of the principles of body movement; opportunities for experiments in improvisation and in creating movement phrases.

30x, 30y. Beginning Modern Dance. (A)

Section I M W 3:10-4:00. S. Genter.

Section II Tu Th 12:10-1:00. C. Novack.

Section III Tu Th 2:10-3:00. C. Novack.

31x, 31y. Low Intermediate Modern Dance. (B)

Section I M W 10:35-12:00. S. Genter.

Section II Tu Th 10:35-12:00. S. Hess.

32x, 32y. Intermediate Modern Dance. (C)

Section I M W 4:10-5:30. C. Novack.

Section II Tu Th 4:10-5:30. S. Genter.

Dance

33x, 33y. Advanced Modern Dance. (D)

Section I M W 12:10-1:30. J. Soares.

Section II Tu Th 12:10-1:30. S. Genter.

Ballet

Technique of classical ballet.

35x, 35y. Beginning Ballet. (A)

Section I Tu Th 1:10-2:00. S. Hess.

Section II Tu Th 3:10-4:00. S. Genter.

36x, 36y. Low Intermediate Ballet. (B)

Tu Th 4:10-5:30. J. Ansley.

37x, 37y. Intermediate Ballet. (C)

M W 9:00-10:25. J. Ansley.

F 9:00-10:25. J. Ansley.

38x, 38y. Advanced Ballet. (D)

Tu Th 9:00-10:25. J. Ansley.

F 9:00-10:25. J. Ansley.

Jazz Dance

Incorporation of ballet and modern dance technique in the distinctive style of jazz dance.

48y. Jazz Dance.

Tu Th 1:10-2:00. (B, C) C. Novack.

Tap Dance

Basic tap dance steps and dances of traditional tap styles, including buck, soft shoe, rhythm buck, and drum roll.

46x, 46y. Beginning Tap Dance. (A)

Not offered in 1981-82.

47x. Intermediate Tap Dance. (B)

Tu Th 1:10-2:00. C. Novack.

RELATED COURSES

Students interested in dance will find the courses given below pertinent and should consult the departmental listings for course descriptions.

English 33x-34y. Play Production.

K. Janes and D. Parichy.

Music 1x-2y. An Introduction to Music.

Staff.

Philosophy V 3803y. Concept of Beauty.

M. Mothersill.



Economics

Office: 405 Lehman Hall

Telephone: 280-3454

Professors

Duncan Foley (Chairman), Deborah Milenkovich

Visiting Professor

John Eatwell

Assistant Professors

Alice Amsden, David Arsen, Bettina Berch², Andre Burgstaller¹, Gregory DeFreitas³,
Sylvia Hewlett¹

Visiting Assistant Professors

Murray Milgate, Fatemeh Maghadem

Instructors

Ronnie Lowenstein, Mary Rosenbaum, Andrew Senchak, Stephen Zuckerman

Other officers of the University offering courses listed below:

Professors

Phillip D. Cagan, Guillermo Calvo, Alexander Erlich, Ronald E. Findlay, Kelvin J. Lancaster, Sidney Morgenbesser (Philosophy), Robert Mundell, Stanislaw Wellisz

Associate Professors

Nicholas Economides, James I. Nakamura, Maurice Obstfeld

Assistant Professors

J.G. Altonji, Ralph Braid, Marie-Paule Donsimoni, Robert C. Feenstra, Martin J. Osborne, Lucas Papademos, Robert A. Shakotko, John D. Wilson

Adjunct Assistant Professors

Nelson Fraiman, Susan Previant Lee

¹Absent on leave, 1981-82

²Absent on leave, Fall Term

³Absent on leave, Spring Term

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student's general understanding of modern history and society. The major programs in economics also prepare students for graduate work in economics, business, law, public administration, international relations and related fields, as well as for careers in business, finance, and government. The aim of the Barnard program is to foster a critical understanding of economics and its relations to other disciplines in the course of developing students' mastery of modern economic theory and tools of analysis.

There are two tracks for the major in economics, equal in rigor and number of courses required, but different in scope and focus. The track in Economics will prepare students with the analytical, mathematical, and economic tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy embraces some techniques of contemporary analysis but emphasizes the rediscovery of the roots and traditions of economic thought and focuses on interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

For information regarding credit for Advanced Placement, students should consult the department chairman.

Economics

REQUIREMENTS FOR THE MAJOR

Prospective majors should discuss their programs with any member of the department no later than their sophomore year. At the time of declaring a major the student also chooses a major adviser who will advise her as to choice of program and courses, and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major including economics should consult the chairman of the department at as early a point in their planning as possible.

Economics

The Economics major requires 10 courses in Economics and 2 in calculus, including

Economics 1, 2	<i>Introduction to Economics</i>
Economics 33	<i>Intermediate Macroeconomic Theory</i>
Economics 35	<i>Intermediate Microeconomic Theory</i>
Economics V 1411	<i>Introductory Probability and Statistics for Economics</i>

2 electives which require Economics 1 -2 as a prerequisite; and a senior essay.

Political Economy

The Political Economy major requires 12 courses, including

Economics 1, 2	<i>Introduction to Economics</i>
Economics 34	<i>Intermediate Macroeconomic Theory</i>
Economics 41	<i>The Theoretical Foundations of Political Economy</i>
Economics 42	<i>The Policy Application of Political Economy</i>

5 electives, including a course in Political Science ; and a senior essay.

Political Economy majors should consult the Political Economy adviser concerning their elective program.

REQUIREMENTS FOR THE MINOR

The minor in economics requires 5 courses, including Economics 1, 2, 33 or 35 or an equivalent, and one elective with Economics 1, 2 as prerequisite.

COURSES OF INSTRUCTION

Barnard Economics 1 and 2 are equivalent to Columbia Economics W 1104 and 1103; Barnard 33 and 34 to Columbia W 3213; and Barnard 35 to Columbia W 3211.

GENERAL COURSES

Courses listed under this heading may be taken without previous study of economics.

1x, 1y. Introduction to Economics.

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, government finance and monetary economics, economic growth and inequality. (Macroeconomic Principles)—Staff.

Enrollment limited to 40 students per section. See Department for sign-up sheets.

3 points.

*x: Section I M W 1:10-2:25.
Section II M W 2:40-3:55.
Section III Tu Th 10:35-11:50.
Section IV Tu Th 9:10-10:25.*
*y: Section I Tu Th 2:40-3:55.
Section II M W 1:10-2:25.
Section III M W F 11:00.*

2x, 2y. Introduction to Economics.

Basic concepts of economic analysis, with emphasis on resource allocation: determination of price and income distribution through supply and demand, market structures, international economics, problems of developing nations, and alternative economic systems. (Microeconomic Principles)—Staff.

Course 1 is not a prerequisite for Course 2. Enrollment limited to 40 students per section. See Department for sign-up sheets.

3 points.

*x: Section I M W F 10:00.
Section II M W F 11:00.*
*y: Section I M W F 10:00.
Section II Tu Th 10:35-11:50.
Section III M W 2:35-3:50.*

CONTEMPORARY PROBLEMS COURSES

The analysis of contemporary problems using institutional and traditional approaches.

Prerequisite: One course in economics or sophomore standing.

10y. Sex, Discrimination, and the Division of Labor.

Women's non-market time, the economics of marriage and divorce, women's labor force participation and occupational choice, theories of discrimination, wage and unemployment differentials, effects of government policy on women's position and some international comparisons.—B. Berch.

3 points.

Tu Th 10:35-11:50.

13x. Economic History of the United States.

Economic transformation of America, colonial period to the present; growth in output, technological change, labor and business organization.—B. Berch.

Not offered 1981-82.

3 points.

14y. Topics in American Economic History.

Four controversial topics explored in depth; emphasis on methodological alternatives and their analytical implications.—B. Berch.

Prerequisite: Course 1 or 2, and 13. Permission of the instructor required.

Not offered in 1981-82.

3 points.

23x. Inflation and Depression: Causes and Consequences.

International and domestic sources of contemporary inflation and economic instability; historical analogies, possible outcomes, reform proposals.—J. Eatwell.

Not offered in 1981-82.

3 points.

25x, 26y. Contemporary Economic Issues.

Survey of leading economic issues in present-day American life, including international as well as domestic questions. Either term may be taken separately. Specific topics vary from year to year.

3 points.

25x. World Economy.

Impact of multinationals, commodity cartels and international financial institutions in the 1970's.

Tu Th 2:40-3:55.

26y. Modern Capitalism.

Organization of production under contemporary capitalism and resulting class structure. Contemporary mainstream economic analysis contrasted with that of the institutionalists, traditional Marxists, and current radical schools of thought.—Staff.

M W 1:10-2:25.

32y. Money and Capital Markets.

Institutional nature and economic function of money and capital markets, primarily in U.S., but also "euro-currency" credit markets. Each market described and related to broad issues of credit flows from savers to investors, interest rate determination, financial liquidity, etc.—Staff.

3 points.

Tu Th 2:40-3:55.

SPECIALIZED COURSES

11y. Poverty and Income Distribution.

Issues of definition and measurement relating to poverty and distribution of income in the U.S.; analysis of cross-section and time-series data; alternative economic theories of poverty and income distribution; empirical tests; evaluation of policies on poverty and distribution, e.g., transfers, wage subsidies, training programs.—Staff.

Economics

Prerequisite: Courses 1 and 2, or permission of the instructor.

3 points.

M W 2:40-3:55.

16x. Government Finance and Fiscal Policy.

Principles of government expenditure and taxation; analysis of government's role in a "mixed economy," and principles of public expenditure evaluation; structure of U.S. tax system, with particular emphasis on tax incidence and the effects of tax policy on economic efficiency.—D. Arsen.

Prerequisite: Courses 1 and 2, or permission of the instructor.

3 points.

M W 2:35-3:50.

V 1411x. Introductory Probability and Statistics for Economics.

Introduction to probability and statistics with applications to economics; descriptive statistics; basic probability theory; point and interval estimation; hypothesis testing; basic aspects of regression and correlation analysis; index numbers.—G. DeFreitas.

Prerequisite: Sophomore standing or permission of the instructor.

3 points.

Lecture Tu Th 9:10-10:25.

Laboratory M or W 2:10-4:00, or Tu or W 4:10-6:00.

18y. Introductory Econometrics.

Introduction to specification and estimation of economic relationships using economic theory, data and statistical inference; single-equation estimation; multiple- and simultaneous-equation systems; econometric analysis of topics such as investment, wage and employment discrimination, etc.—Staff.

Prerequisite: Course 1 and 2, and V 1411, or permission of the instructor.

4 points.

Lecture M W 1:10-2:25.

Laboratory Tu 2:10-4:00 or W 4:10-6:00.

19x. Labor Economics.

Factors affecting the allocation and remuneration of labor: population structure; unionization and monopsony; education and manpower training, mobility and information; sex and race discrimination; unemployment; and public policy.—G. DeFreitas.

Prerequisite: Courses 1 and 2 or the equivalent.

3 points.

Tu Th 10:35-11:50.

22x. The Economics of Population.

Economic determinants and consequences of population structure and change in developed and underdeveloped countries; population theories; sources and uses of demographic

statistics; fertility, mortality and migration; population distribution; family planning, population policy.—Staff.

Prerequisite: Courses 1 and 2 or the equivalent. Not offered regularly. Not offered in 1981-82.

3 points.

29x. The Economics of Underdeveloped Areas.

Theories of economic underdevelopment and development; selected problems in trade, foreign investment, technological change, industrialization, agriculture and state policy.—A. Amsden.

Prerequisite: Courses 1 and 2 or permission of the instructor.

3 points.

Tu Th 2:40-3:55.

30x. Comparative Economic Systems.

Planned, market, and mixed economies; the concept of an economic system; ownership, resource allocation, locus of decision-making, and motivation; comparison of theoretical systems, examples of enterprise organization and national economic planning in the Soviet Union, Yugoslavia, Cuba, China and Japan.—D. Milenkovich.

Prerequisite: Courses 1 and 2 or permission of the instructor.

3 points.

M W 1:10-2:25.

31x. The Development of Economic Thought, 1770-1970.

Intellectual origins of the main schools of thought in economics and the dynamic interaction between these schools of thought and governmental decision-making over the last two centuries. Particular attention to the theoretical controversies in contemporary economics. Staff.

Prerequisite: Courses 1 and 2 and permission of the instructor.

3 points.

Tu Th 10:35-11:50.

33y. Intermediate Macroeconomic Theory. (formerly 27)

Systematic and analytically oriented exposition of current macroeconomic theories of unemployment, inflation and international financial adjustments.—Staff.

Primarily for majors in the Economics track.

3 points.

Tu Th 1:10-2:25.

34x. Intermediate Macroeconomic Theory.

Mainstream macroeconomic models (in less mathematical detail than in Course 33). Economic theories concerning business cycles, unemployment, inflation, and the distribution of income. The aim of the course is to make students more familiar with the macroeconomic theories of the main schools of economic

thought, so that they may better assess how well such theories illuminate contemporary issues. Staff.

Primarily for majors in the Political Economy track.

3 points.

Lecture Tu Th 1:10-2:25.

Laboratory W 4:10-6:00.

35x. Intermediate Microeconomic Theory. (formerly 28)

Behavior of markets, theories of production and cost, pricing of goods and services under alternative market structures, implications of individual decision-making for consumer demand and labor supply, income distribution, and welfare and public policy. Emphasis on problem-solving.—D. Milenkovich.

Prerequisite: Courses 1 and 2.

3 points.

Tu Th 10:35-11:50.

41x. The Theoretical Foundations of Political Economy.

Intellectual origins of the main schools of thought in political economy: Classical political economy, Marxian economics, Neo-Classicism, Keynesianism, and Monetarism. Theoretical controversies in twentieth-century political economy.—D. Foley.

Prerequisite: Courses 1 and 2.

3 points.

M W 2:40-3:55.

42y. The Policy Applications of Political Economy.

Major policy perspectives within political economy: "laissez-faire" conservatism, middle-of-the-road reformism, and socialist revolution. Contemporary policy questions of inflation, income distribution and poverty, and foreign aid.—A. Amsden.

Prerequisite: Courses 1, 2 and 41.

3 points.

Tu Th 2:40-3:55.

Economics—History 56y. History of Women's Work.

Women's experience through an analysis of women's work; economically productive uses of women's labor (maintenance of the household, childbearing, as well as paid work in the labor market); dynamics of the changes in these spheres of women's work activity. The focus of the course is on the American experience, the approach is historical and comparative.—B. Berch.

A substantial background in history and/or economics is recommended. Written permission of the instructor required.

Enrollment limited to 15 students.

3 points.

Tu 2:10-4:00.

61x, 62y. Senior Research Seminar.

Discussions and conferences on the researching and writing of the senior essay.—D. Arsen.

Prerequisite: Courses 1, 2, 33, 35, and V 1411, or 1, 2, 34, 41, and 42.

4 points.

Th 4:10-6:00.

63x, 64y. Topics in Economic Theory and Topics in Economic Policy.

Advanced topics in economic theory and policy. The focus is on the development of the students' analytical and synthetic skills, and on their oral and written presentation of ideas.—63: J. Eatwell; 64: Staff.

Prerequisite: Courses 33 or 34, and 35.

Enrollment limited to 15 majors.

3 points.

Tu 4:10-6:00.

99x, 99y. Independent Study.

Independent Study.—Staff.

Points to arranged.

Hours to be arranged.

W 3173x. Seminar in Economic Development.

Selected problems in modern economic growth and development with emphasis on technological change, human resource development, institutional development and the role of government.—S. Wellisz.

Prerequisite: Courses W 3211, W 3213, W 3321, and the permission of the instructor.

4 points.

Tu 4:10-6:00.

W 3186y. Seminar in Labor Economics.

Theoretical issues and empirical analysis involving labor supply and demand mobility; remuneration and investment in human capital; labor unions, the functioning of the labor market, employment and unemployment. Each student must prepare a research paper.—J. G. Altonji.

Prerequisite: Course W 3211, a course in labor economics and permission of the instructor.

4 points.

Tu 11:00-12:50.

W 3228x. The Urban Economy.

Past and present economic functions of cities. Location theory, theories of site rent and urban form, and growth of metropolitan areas; problems of older central cities, including housing, urban renewal, public finance, and discrimination. Transportation, congestion, and pollution. R. Braid.

Prerequisite: Courses W 1103-W 1104 and W 3211.

3 points.

Tu Th 2:40-3:55.

Economics

W 3229y. Seminar in Urban Economics.

Theoretical issues and practical problems in urban economics.—R. Braid.

Prerequisite: Course W 3228.

4 points.

Tu 2:10-4:00.

W 3251y. Industrial Organization.

Organization and structure of American industries and their markets; competitive behavior, pricing policies, and market performance; anti-trust policy and leading antitrust cases.—N. Economides.

Prerequisite: Courses W 1103-W 1104 and W 3211.

3 points.

M W 1:10-2:25.

W 3261x, W 3261y. Introduction to Accounting and Finance.

Concepts and methods underlying financial statements of business corporations, with attention to problems of asset valuation, income determination, cash flows, and cost and profit behavior in response to changes in the level of business activity. Analysis of selected corporate financial statements. Strategies and analytical methods for the evaluation of capital projects.—x: N. Fraiman; y: Instructor to be announced.

4 points.

Section I M W 7:10-9:00 p.m.

Section II Tu Th 12:10-2:00.

W 3313x. Economic History of the United States.

Development of the American economy from the Colonial period to the present time. Emphasis on economic causes of the American Revolution, Civil War, and Great Depression.—Instructor to be announced.

Prerequisite: Courses W 1103-W 1104.

3 points.

Hours to be arranged.

W 3321x. Economic Development.

Historical, comparative examination of economics development: human capital accumulation; roles of primary, secondary, and tertiary sectors; development of economic institutions; economic relations with the rest of the world.—J. Nakamura.

Prerequisite: Economics W 1103-W 1104 or the equivalent.

3 points.

M W 6:10-7:25.

W 3411x. Labor Economics.

Labor force and labor markets, education and manpower training, unions and collective bargaining, mobility and immobility, sex and race discrimination, unemployment.—A. Siow.

Prerequisite: Course W 3211.

3 points.

M W 11:00-12:15.

W 3412y. Econometrics.

Modern econometric methods, general linear statistical model and its extensions, simultaneous equations methods and the identification problem, time series problems, forecasting methods.—N. Economides.

Prerequisite: Course W 3211 or W 3213, and Mathematics V 1101-V 1102.

3 points.

Tu Th 6:10-7:25.

W 3414y. Introduction to Mathematical Economics.

Application of mathematical techniques to economic analysis. Linear algebra and dynamical systems in economic models.—M.J. Osborne.

Prerequisite: Mathematics V 1111-V 1112 or the equivalent with the instructor's permission.

3 points.

Tu Th 10:35-11:50.

W3711x, W 3711y. Monetary Economics and Policy.

The nature of money and the U.S. monetary system. Monetary theory, monetary policy and how it affects the economy, current problems in the control of inflation. x: L. Papademos; y: P. Cagan.

Prerequisite: Course W 3213.

3 points.

x: M W 2:40-3:55.

y: M W 11:00-12:15.

W3863x. Public Finance.

Important concepts in welfare economics; analysis of types of market failures and rationales for government intervention in the economy. Public expenditure policies including the optimal provision of public goods, voting mechanisms for allocating public goods and cost-benefit analysis. Positive and normative aspects of taxation, including a description of the United States tax system, theoretical and empirical studies of tax incidence, taxation policies to correct for externalities, measurement of the efficiency loss from distortionary taxation and taxation policies to raise revenue and redistribute income.—J. Wilson.

Prerequisite: Course W 3211 and at least one semester of calculus.

3 points.

Tu Th 1:10-2:25.

W 3886y. Seminar in Public Finance.

Readings and discussions on taxation and government expenditure policies. Students are required to write a research paper.—J. Wilson.

Prerequisite: Course W 3863 and at least one semester of calculus.

4 points.

Th 2:10-4:00.

W 3903x, W 3903y. Seminar in International Economics.

Each student selects a problem discussed in Course W 3904 and writes a research paper on it.—x: R. Findlay; y: R. Feenstra.

Prerequisite: Course W 3904 and the instructor's permission.

4 points.

x: Tu 2:10-4:00; y: M 2:10-4:00.

W 3904x. International Trade.

Theory of international trade, comparative advantage and the factor endowments explanation of trade, analysis of the theory and practice of commercial policy, economic integration. International mobility of capital and labor; the North-South debate.—R. Feenstra.

Prerequisite: Course W 3211.

3 points.

M W 6:10-7:25.

W 3905y. International Monetary Theory and Policy.

Introduction to monetary problems in international trade, with emphasis on evolution of world monetary system since 1945 and current policy problems: macroeconomics of the open economy under fixed and flexible exchange rates, international adjustment under the gold standard, monetary problems of the interwar period, the Bretton Woods agreement, the transition to flexible exchange rates, plans for reform of the international monetary system and the Eurocurrency markets.—R. Mundell.

Prerequisite: Course W 3213.

3 points.

Tu Th 10:35-11:50.

W 3911y. Seminar in Economic Theory.

Selected topics in economic theory.—

M. Osborne.

Prerequisite: Course W 3211.

4 points.

W 2:10-4:00.

W 3913x, W 3913y. Seminar in Macroeconomic Theory.

Important contributions to macroeconomics, and current developments in that area; disequilibrium theories, rational expectations models, and the macroeconomic implications of fixed and flexible exchange rates in the presence of international capital mobility.—x: L. Papademos; y: G. Calvo.

Prerequisite: Course W 3213.

4 points.

x: W 11:00-12:50.

y: Tu 2:10-4:00.

W 4258x. Worker Management.

Theory and practice of the labor-managed firm in advanced industrial nations and in developing

countries, with special reference to the experience of Yugoslavia. Microeconomic and macroeconomic implications of the labor-managed economy.—D. Milenkovich.

Prerequisite: Course W 3211.

Not offered in 1981-82.

3 points.

G 4328y. Economic Development.

Theory and practice of economic planning in the underdeveloped world: resource mobilization and foreign aid, capital movements, and industrialization strategies. A critical approach linking the theory to contemporary case examples.—A. Amsden.

Permission of the instructor required.

Enrollment limited to 40 students.

3 points.

Tu 10:35-12:25.

W 4337x. Economic Organization and Development of the Middle East.

Main problems of the region in the broad context of economic development theories; analysis of patterns and trends in population, national income, capital formation, agriculture, industry, petroleum, foreign trade, and planning. Instructor to be announced.

Prerequisite: Course W 1103-W 1104.

3 points.

Hours to be arranged.

W 4430x. Marxist Economic Theory.

Critical examination of Marxist economic theory, using Marx's texts and more recent Marxist writings. Application of Marxist ideas to current economic problems. Labor theory of value. Marx's theory of money, class and exploitation, the expanded reproduction of capital, productive and unproductive labor, rent, the rate of profit.—D. Foley.

Some previous work on Marxism desirable but not required.

3 points.

M W 1:10-2:25.

W 4431y. Advanced Topics on Marxist Economics.

A study of important current debates and problems in the theoretical and empirical literature in Marxist economics. Topics will be chosen jointly by instructor and students and might include: theories of capitalist crisis, the falling rate of profit, the transformation of value into price, the capitalist state, uneven development of world capitalism, the labor process, monopoly capital, finance capital and the analysis of socialist economies.—D. Foley.

Prerequisite: W 4430 or the equivalent, or permission of the instructor.

3 points.

Tu Th 1:10-2:25.

Economics

W 4460x. Health Economics.

Microeconomic analysis of demand for health services; productivity of health services; supply and demand for health services, risk, insurance, and regulation.—R. Shakotko.

Prerequisite: Course W 1103-W 1104.

3 points.

W 11:00-12:15.

W 4524y. Economic Organization in Eastern Europe.

Organization and performance of Soviet-type economies; pressures for change; comparison of reforms in Yugoslavia, Eastern Europe and the Soviet Union.—D. Milenkovich.

Prerequisite: Course W 1103-W 1104.

3 points.

M W 2:40-3:55.

Economics-Philosophy C 3910x. Semin. in Marxism.

Critical study of classical and contemporary Marxist writings on social philosophy and political economy.—A. Erlich, S. Morgenbesser.

Permission of the instructor required.

4 points.

W 3:10-4:00.

Education

Office: 336B Milbank

Telephone: 280-2117, 5408

Lecturer

Susan Riemer Sacks (Director)

Associates

Giselle Harrington, Katherine Knight Wilcox

This program is supervised by the Committee on Education:

Professor of History and Education, Teachers College, Columbia University
Hazel Hertzberg

Professor of Biological Sciences

Patricia L. Dudley

Professor of English

Barry Ulanov

Associate Dean of Columbia College

Michael Rosenthal

Associate Dean for Student Affairs, School of General Studies

Joseph Kissane

Assistant Professor of Psychology

Peter Balsam

The Barnard Education Program is open to Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, who are considering working with young people or adults in human services agencies, or who are preparing for careers related to education. The Education Program concentration is taken in conjunction with a major in an approved field of study. Interested students should consult with the Education Program faculty.

Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission in the fall of the junior year, and applications are available in the Program office at the beginning of the Autumn Semester.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings.

Elementary School Program

This track leads to the New York State Provisional Common Branch Certificate (N-6). Students participating in the elementary program must complete the following course of study:

One Psychology course, chosen from among

Psychology 27 or 29
Psychology 30 or 32
Psychology 34

Developmental Psychology
Human Memory and Learning
Educational Psychology

One foundations course, chosen from among

Philosophy 84
Sociology V3225
Education 32

Philosophy of Education
Sociology of Education
Contemporary Issues in Education

Education

A third course from either of the above categories; and
One methods course.

Education 52

Competency Development in Elementary Education

During the junior year spring semester, all students entering the elementary education program take Education 52, which involves a classroom internship one morning per week.

Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7-12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete the following course of study:

One Psychology course, chosen from Psychology 27 or 29, 30 or 32, or 34; and

One foundations course, chosen from Philosophy 84, Sociology V3225, or Education 32.

One methods course.

All students entering the secondary education program take one methods course in the student's specific subject area during the junior year. The following course is available at Barnard:

English 92

Seminar in the Teaching of English

Juniors interested in teaching secondary mathematics, science, social studies or foreign languages take the appropriate methods course offered at Teachers College:

TX 4008

Mathematical Teaching and Learning: The Formal Operational Stage

TK 4040 plus Curriculum Lab.

Science Teaching

TW 4020

Methods of Teaching Social Studies

TL 4001

General Approaches for ESOL or Foreign Language Teaching

Senior Program

Senior students in the Education Program participate in Education 63, *Teaching in the Elementary or Secondary Schools*, the field-based student teaching experience for one semester during their last year. This course provides students with the opportunity to teach. Through close supervision, the student examines the teaching experience and the interrelationship between the subject area, child and human development, the role of the school in society, and the teacher as a decision-maker. Student teaching includes observation and teaching five mornings a week for the semester.

Education 64, *Seminar in the Teaching-Learning Process*, is taken concurrently with student teaching. The seminar provides a forum for discussions of the principles and practices of classroom teaching and examines in depth the education process in our society. Student teaching and the seminar should be registered for as Education 63x and 64x in the Autumn term, or Education 63y and 64y in the Spring term. It is strongly advised that no more than two other courses be taken concurrently with student teaching and the seminar.

Requirements for the Minor

There is no minor in Education.

Courses of Instruction

32y. Contemporary Issues in Education.

Study of controversial topics confronting education in the 1980's and their relation to contemporary society. Equity in learning experiences for girls and boys, the handicapped, bilingual and gifted students will be examined. The impact of computers, television, and values teaching on schooling will be addressed. Observation in classrooms required.—S. Sacks.

4 points.

W 2:10-4:00.

Prerequisite: Admission to Education Program.

Corequisite: Course 63.

Enrollment limited to 35 students per year.

4 points.

M 2:10-4:00.

52y. Competency Development in Elementary Education.

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. Students serve an internship one morning a week in elementary classrooms. K. Wilcox.

This course should be taken in the Spring Term of the junior year. It is a prerequisite to student teaching in the elementary grades.

Prerequisite: Application to the Education Program or permission of the instructor.

4 points.

Tu 2:10-4:00.

English 92y. Seminar in the Teaching of English.

English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, grading.—E. Caughran.

For students who plan to teach or to produce teaching materials.

Enrollment limited to 12 students.

4 points.

W 2:10-4:00.

Philosophy 84y. Philosophy of Education.

Philosophical presuppositions of intellectual and moral education; innate ideas; natural moral characteristics; permissiveness; "free" schooling, "de-schooling"; material and moral incentives. Readings include selections from Plato, Rousseau, Piaget, Dewey, Chomsky, Illich, Neil, and current periodical literature.—J. Blustein.

Not open to freshmen.

3 points.

Tu Th 1:10-2:25.

Sociology V 3225x. Sociology of Education.

Social organization of education in the United States, with emphasis upon primary and secondary schools: the school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community.—N. Friedman.

Permission of the instructor required.

3 points.

M W 1:10-1:25.

Juniors interested in teaching secondary mathematics, science, social studies or foreign languages should take the appropriate methods course offered at Teachers College.

TX 4008x. Mathematical Teaching and Learning: The Formal Operational Stage.

B. Vogeli.

3 points.

W 7:00-9:00.

TK 4040x Plus Curriculum Lab. Science Teaching.

See Education Program for specifics.

63x, 63y. Teaching in the Elementary or Secondary Schools.

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelation between process, content, and values in the educational experience. (Student teaching requires a minimum of 20 class periods per week, each morning for one semester of the senior year.)—Staff.

Prerequisite: Admission to Education Program.

Corequisite: Course 64. Both courses 63 and 64 are required for teaching certification.

Enrollment limited to 35 students per year.

4 points.

64x, 64y. Seminar in the Teaching-Learning Process.

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning situations. Teaching skills are developed through individual supervision, conferences, and video-taping.—S. Sacks and G. Harrington.

Education

TW 4020x. Methods of Teaching Social Studies.

H. Hertzberg.

3 points.

M 4:20-6:00.

TL 4001. General Approaches for ESOL or Foreign Language Teaching.

M. Hines.

4 points.

Hours to be arranged.



English

Office: 417 Barnard Hall

Telephone: 280-2116

Professors

Kenneth H. Janes (Director of Minor Latham Playhouse), Ruth M. Kivette¹, Maire Kurrik¹, Joann Ryan Morse, Richard A. Norman³, Remington Patterson, Anne Lake Prescott, David A. Robertson, Jr.³, Barry Ulanov (Chairman)

Adjunct Professors

Joy Chute, Howard M. Teichmann

Adjunct Associate Professors

Ann Birstein, Diana Chang, Albert Murray

Assistant Professors

Alfred Bendixen, Elizabeth Dalton, Janice Farrar Thaddeus

Adjunct Assistant Professor

Wendy W. Fairey

Associates

Elizabeth Caughran, Marjorie Housepian Dobkin, Lois A. Ebin (Director of Departmental Registration), Celeste Schenck, James Sherry, Quandra Stadler

Lecturers

Constance Brown, Florian Stuber

Instructors

Constance Colby, Joanna Cole, Timea Szell

Assistant

Constance Budelis

¹Absent on leave, Spring Term

²Absent on leave, Fall Term

³Emeritus and Special Lecturer

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of literary works that enrich our cultural heritage.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the general college requirement in literature by electing appropriate courses listed under LANGUAGE AND LITERATURE.

REQUIREMENTS FOR THE MAJOR

A major program consists of at least ten courses planned in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (Course 93, *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (Course 59-60, *The English Colloquium*).
2. In addition, she will elect five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. Normally, she will choose these five from courses 53-58 and 63-90. She may select two of the five courses 3-38.
3. As a senior, she will complete advanced work in two seminars (Courses 97, 98). For one of these seminars a student with a particular interest in writing, speech, or theatre may substitute an independent project in an advanced course in her special field.

English

REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: 55, *Chaucer*, or 63 or 64, *Shakespeare*, or 67, *Milton*; two additional courses in literature before 1900 (53-79); and two electives.

Program in the Arts: Students interested in this Program should see the announcement on page 93; and should consult with the Program Chairman or a member of the Program Committee.

COURSES OF INSTRUCTION

INTRODUCTORY

Ax, Ay. Studies in English: Language and Literature.

Practice in reading and writing through close examination of texts, regular assignments in composition, and discussion; frequent individual conferences with the instructor. Sections will adopt various approaches. Topics in recent years have included the significance of the past, the modern tradition, and the American identity.—English A Director and Staff.

Prescribed for all freshmen. May not be taken for pass/fail.

3 points.

Sections meet at the following hours:

M W F 9:00, 10:00, 11:00, 12:10, 1:10; M W 2:40-3:55; Tu Th 9:10-10:25, 10:35-11:50, 1:10-2:25, 2:40-3:55.

2x, 2y. Special Seminar in Reading and Writing.

For students who want additional work in writing. Frequent conferences.—C. Colby, T. Szell.

Permission of the instructor required. May only be taken for pass/fail.

3 points.

Section I M W 1:10-2:00.

Section II M W 12:00-12:50. (Autumn Term only. For students whose first language is not English.)

WRITING

Registration in each course is limited and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Mrs. Budelis (417 Barnard Hall). Two writing courses may not be taken concurrently. A major with a special interest in writing who has had two writing courses may substitute a third writing course for either courses 97 or 98 in her senior year. She will undertake an independent project in the selected writing course.

3x, 4y. Structure and Style.

English composition above the first-year level. Frequent individual conferences. Students may take either term or both.

3 points.

I. Exposition.

Techniques of argument and effective expression. Each student will submit a weekly paper for class discussion.

x: Section I W 12:00-1:50. J. Cole.

Section II M 2:10-4:00. Q. Stadler.

y: Section I W 12:00-1:50. J. Cole.

II. Fiction and Personal Narrative.

Work primarily on short stories and autobiographical writing. Minimum of forty pages of writing required each term.—E. Dalton.

x: M 2:10-4:00.

y: W 3:10-5:00.

III. (Spring Term) Poetry as Art and Craft.

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and similar techniques, without slighting rhythm and rhyme.—J. Thaddeus.

Enrollment limited to 15 students.

M 2:10-4:00.

IV. (Spring Term) Journalism and Popular Writing.

Methods of news writing and news judgment. Special attention to the literary qualities of journalistic writing.—A. Graber.

W 2:10-4:00.

5x, 6y. The Craft of Writing: Fiction and Non-Fiction.

Each student will keep a writer's notebook to develop the habit of writing regularly, to sharpen observation, and to stimulate recall or imagination; she will expand and shape selected materials into finished works.—M. Dobkin.

Prerequisite: Demonstration of some writing ability.

3 points.

Th 4:10-6:00.

7x, 8y. Experiments in Writing.

Advanced work in various forms. Individual conferences with the instructor.

3 points.

x: Section I Th 2:10-4:00. A. Birstein.

Section II Th 2:10-4:00. A. Murray.

y: Section I Th 2:10-4:00. A. Birstein.

Section II Th 2:10-4:00. D. Chang.

11x, 12y. Story Writing.

Advanced work in writing, with emphasis on the short story. Individual conferences with the instructor.—J. Chute.

Prerequisite: Some experience in the writing of fiction.

3 points.

Tu 4:10-5:00. Conference hours to be arranged.

13x, 14y. Dramatic Writing

Development of a dramatic situation in terms of short fiction, theatre, television, motion pictures, and radio. Completed works are discussed, given dramatic readings by the class, and recorded on tape and video tape.—H. Teichmann.

Field trip to Broadway rehearsals, and network radio and television studios.

3 points.

Tu Th 2:40-3:55.

SPEECH

Registration in each course is limited, and to elect any course in speech a student must secure the written permission of Professor Norman or Ms. Caughran. A major with a special interest in speech who has had two speech courses may substitute a third speech course for either course 97 or 98 in her senior year. She will undertake an independent project in the selected speech course. Her work should include course 21 and courses in public speaking and oral interpretation.

21x. The Uses of Speech.

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking.—E. Caughran.

3 points.

Tu Th 2:40-3:55. Conferences with the instructor to be arranged.

22y. American and British Dialects.

Study of the geographic, social, and vocational dialects of English, their importance in writing, ethnic studies, and acting performance.—E. Caughran.

Offered in alternate years. Offered in 1982-83.

3 points.

24y. Oral Interpretation of Literature.

Study of literary texts for oral performance. Fictive prose and poetry, with class projects exploring reading modes from informal presentation to reader's theatre.—E. Caughran.

3 points.

Tu Th 2:40-3:55. Conferences with the instructor to be arranged.

27x. Public Speaking.

Study of basic principles of informal and formal speaking with emphasis on the selection and

organization of materials, on audience psychology, and on effectiveness of delivery.—E. Caughran.

3 points.

Tu Th 10:35-11:50.

28y. Persuasive Speaking.

Theory and practice of persuasive speaking; use of evidence and opinion, logic, and audience motivation in presentation of controversial views and current issues.—R. Norman.

3 points.

Tu Th 10:35-11:50.

THEATRE

Registration in each course is limited, and to elect any course in theatre (except course 29, 30, *Introduction to the Theatre*) a student must secure written permission of the instructor. Majors with a special interest in theatre should consult with a faculty member of the theatre staff concerning courses in theatre. A major who has had at least one course in speech and two in theatre may substitute a course in theatre for either course 97 or 98. She will undertake an independent project in the selected theatre course.

29x. History of the Theatre: Aeschylus to Ibsen. Survey of theatre with emphasis upon the origins of theatre, and the nature of the dramatic art. Individual and group projects in related research.—L. Castaños and theatre staff.

3 points.

Tu 2:10-4:00.

30y. Modern Theatre: An Introduction.

Survey of the theatre from Ibsen to the present, with emphasis on the place of theatre in society. Attention is paid to the interrelation of dramatic literature, styles of production and the organization of theatre. Individual and group projects in related research.—L. Castaños and theatre staff.

3 points.

Tu 2:10-4:00.

31x, 32y. The Contemporary Theatre.

Major developments in contemporary theatre, especially the nature and treatment of the text, the actor's art, and the function of the director. The course will include acting and directing projects by class members.—L. Castaños.

3 points.

M 2:10-4:00.

Laboratory hours to be arranged.

33x, 34y. Play Production.

Technical aspects of the theatre and the ways in which they complement the work of the playwright, director, choreographer, and actor. Guest lecturers in specialized areas from the professional theatre.—D. Parichy.

3 points.

Tu Th 2:10-4:00.

English

35x, 36y. Actor's and Director's Interpretation of Dramatic Literature.

Practical study of Renaissance and Restoration dramatic literature for actors and directors.—K. Janes.

Prerequisite: Some theatre experience.

3 points.

W 2:10-4:00.

Laboratory hours to be arranged.

37x, 38y. Musical Ensemble Theatre.

Basic course developing the techniques, methods, and skills involved in the creation and performance of original theatre material. All the elements of a theatrical presentation will be used. Material created by class members will be developed and performed. The history of popular entertainment, vaudeville, musicals, film and theatre revues will be the source material for the discovery of some of the connections between traditional and modern works.—S. Kaplan.

4 points.

Tu Th 10:35-11:50.

Laboratory hours to be arranged.

LANGUAGE AND LITERATURE

40x, 40y. Seminars on Special Themes.

Registration in sections is limited.

3 points.

40x. I. Ulysses and Its Background.

Joyce's comic epic, and its sources; Homer, Shakespeare, Swift, Eliot, Yeats.—

J. Morse.

W 2:10-4:00.

II. Women and Literature.

A study of some of the recurrent problems confronting fictional heroines. Readings include works by Woolf, Meredith, Richardson, Burney, and Plath.—

J. Sherry.

M W F 1:10.

VI. Explorations of Black Literature.

Black expression in America, slave narratives, folklore, and song; works by Chesnutt, DuBois, and others.—Q. Stadler.

Tu Th 10:35-11:50.

X. The Southern Renaissance in American Literature.

A study of works by major modern writers of the South: Faulkner, Glasgow, William Welty, Warren, Wolfe, Wright, Porter, O'Connor, and others.—

A. Bendixen.

M 2:10-4:00.

40y. III. Psychoanalytic Approaches to Literature.

Literary expression in the light of psychoanalytic thought; readings in Freud and other psychoanalytic writers. Shakespeare, Keats, James, Kafka, Lawrence, Dostoevsky, and others.—E. Dalton.

M W F 1:10.

V. Fable and Fantasy.

Selected works by nineteenth and twentieth century authors: Lewis Carroll, G.K. Chesterton, C.S. Lewis, and others. Their use of religious and philosophical fable, nonsense and paradox; their creation of other worlds.—A. Prescott.

M W F 1:10.

IX. Major British Women Novelists of the Nineteenth Century.

Selected works by Austen, E. and C. Bronte, Gaskell, and Eliot. The delineation of provincial life, the heroine's assertion of self, conventions and realities of love, seduction, and marriage. Biographical questions. Social context.—W. Fairey.

W 1:10-3:00.

XI. The Country and the City.

A comparative study of two modes of discourse, imagery, ideology. Authors to be read include Shakespeare, Wordsworth, Dickens, Eliot, Hardy, Bellow.—

C. Schenck.

Tu 12:00-1:50.

41x, 42y. Major English Texts.

A general view of the variety of English literature through study of selected writers and their works. Autumn: Chaucer through Milton. Spring: Dryden to the beginning of the twentieth century.—R. Patterson.

3 points.

M W F 10:00.

53y. Anglo-Saxon.

Introduction to the language, with selected readings in prose and verse.—R. Norman.

Not offered in 1981-82.

3 points.

55y. Chaucer.

The Canterbury Tales.—L. Ebin.

3 points.

Tu Th 10:35-11:50.

58y. Medieval Literature.

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation.—B. Ulanov.

Offered in alternate years. Offered in 1981-82.

3 points.

Tu Th 2:40-3:55.

59x-60y. The English Colloquium.

Major writers and literary works of the Renaissance and the Enlightenment, examined in terms of leading ideas in those periods.

Required of majors in the sophomore or junior year; open to nonmajors if numbers permit.

Enrollment limited.

4 points.

I. Skepticism and Affirmation.

Humanism, reformation, and revolution; the limits of human knowledge; the problem of evil; visions of perfection; reason and revelation.—E. Dalton, C. Schenck.

W 2:10-4:00.

II. Imitation and Creation.

New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.—J. Morse.

M 2:10-4:00.

III. Ideas of Order and Disorder.

Form and structure achieved or defeated in the work of art and in the world; the rise of the man of letters and vernacular literature; the drama of self-transformation.—B. Ulanov.

Th 4:10-6:00.

IV. Reason and Imagination.

Relationship of the subjective and objective vision; the impact of "new philosophy," exploration and discovery; the shift from authority to perception and from public to private forms.—L. Ebin.

Tu 2:10-4:00.

63x, 64y. Shakespeare.

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare.—R. Patterson.

3 points.

M W F 11:00.

65x. The Tudor Renaissance.

Continuities, recoveries, and innovations from Skelton and More to Sidney and Spenser; Humanism, the Reformation, Neoplatonism, courtly and popular wit.—A. Prescott.

3 points.

M W F 1:10.

66y. Seventeenth-Century Poetry.

Classical and Christian traditions; the "old" philosophy and the "new" science; thought and style in the poetry of Donne, Jonson, and their followers; the early Milton, and Marvell.—R. Kivette.

Offered in alternate years. Offered in 1982-83.
3 points.

67x. Milton.

Close reading and critical study of *Paradise*

Lost, Paradise Regained and Samson Agonistes, with some attention to minor poems and prose.—R. Kivette.

3 points.

Tu Th 10:35-11:50.

68y. Seventeenth-Century Prose.

Thought and style in the prose of Bacon, Burton, Donne, Browne, Milton, and Dryden; the effect of the new science on the literary imagination.—R. Kivette.

Not offered in 1981-82.

3 points.

69y. English Drama: 900-1642.

English drama from its beginnings to the closing of the theatres. Medieval plays, the Tudor interlude, and major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlow, Jonson, and Webster.—R. Patterson.

3 points.

Tu Th 4:10-5:25.

71x. The Novel.

The central English tradition, including works by Defoe, Richardson, Fielding, Sterne, Lewis, Austen, Bronte, Dickens, George Eliot, Carroll, and Hardy.—M. Kurrik.

3 points.

MWF 11:00.

73x. Eighteenth-Century Literature, 1660-1740.

Tradition and innovation in satire, drama, the periodical essay, and the novel; readings in Etherege, Congreve, Pope, Swift, Defoe, Fielding, and Gay.—J. Thaddeus.

Offered in alternate years. Offered in 1982-83.

3 points.

74x. Eighteenth-Century Literature, 1740-1800.

Tradition and innovation in a variety of forms, including works by Johnson, Boswell, Goldsmith, Sheridan, Fielding, Sterne, Burns, and Blake.—J. Thaddeus.

Offered in alternate years. Offered in 1981-1982.

3 points.

M W F 10:00.

76y. English Romanticism.

The thought and style of Blake, Wordsworth, Coleridge, Hazlitt, Lamb, DeQuincey, Byron, Keats, and Shelley.—J. Sherry.

3 points.

M W F 11:00.

77x. The Victorian Age in Literature.

Prose and verse on problems of society and religion. Carlyle, Mill, Ruskin, Arnold, Newman, Huxley, Tennyson, Browning.—D. Robertson.

Not offered in 1981-82.

3 points.

English

78y. Victorian Poetry and Criticism.

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne; some paintings by the Pre-Raphaelites and others; critical opinions of Ruskin, Arnold, Pater, and Wilde.—D. Robertson.

3 points.

Tu Th 10:35-11:50.

79x. American Literature before 1890.

Formation and development of the American literary tradition with an emphasis on the major writers of the nineteenth century.—

A. Bendixen.

3 points.

M W F 1:10.

80y. American Literature since 1890.

Modern American fiction, poetry, and drama.

A. Bendixen.

3 points.

M W F 1:10.

81x. Major American Writers.

Attempts to define the American character in works by Melville, Hawthorne, James, Cather, Wharton, Hemingway, Faulkner, Glasgow, and others.—A. Bendixen.

Permission of the instructor required.

Enrollment limited.

Offered in alternate years. Offered in 1982-83.

3 points.

83x. Modern Literature and the Allied Arts.

The focus and the vocabulary of the modern artist, examined and defined first in terms of literature, and then through a comparison with painting, music, the dance, and the motion picture.—B. Ulanov.

Offered in alternate years. Offered in 1981-82.

3 points.

Tu Th 2:40-3:55.

85x. Modern British and American Poetry.

The thought and style of Hopkins, Yeats, Frost, Robinson, Pound, Eliot, Stevens, and more recent writers; the literary movements with which they are associated.—B. Ulanov.

Offered in alternate years. Offered in 1982-83.

3 points.

86y. Modern Drama.

The modern theatre and its makers from Ibsen to the present; its Renaissance and eighteenth-century antecedents.—B. Ulanov.

Offered in alternate years. Offered in 1982-83.

3 points.

87y. Major American Writers and Their Foreign Counterparts.

Selected nineteenth- and twentieth-century American, European, and English works of prose and poetry.—E. Dalton.

Offered in alternate years. Offered in 1981-82.

3 points.

M W F 12:10.

88y. The Modern Novel.

Works by Hardy, James, Conrad, Forster, Lawrence, and Joyce.—J. Morse.

3 points.

M W F 12:10.

89y. Post-Modern Literature.

Writers since 1945, primarily English and American, and concepts of post-modern culture. Readings to include Beckett, Borges, Mailer, Nabokov, Sarraute, and others.—E. Dalton.

Permission of the instructor required for freshmen.

Offered in alternate years. Offered in 1982-83.

3 points.

90x. The English Language: History and Use.

Introduction to the history of words, pronunciation, and structure in light of literary tradition and linguistic science.—R. Norman.

3 points.

M W F 10:00.

92y. Seminar in the Teaching of English.

The place of English in the curriculum and the role of the English teacher; grammar, composition, literature, testing, and grading.—E. Caughran.

For students who plan to teach or to produce teaching materials.

Enrollment limited.

4 points.

W 2:10-4:00.

93x, 93y. Critical Writing.

The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of conspicuous works of literary criticism. Frequent short papers. All English majors are required to take course 93 before the end of the junior year. Sophomores are encouraged to take it in the Spring Term before they officially declare their major. Transfer students should plan to take 93 in the Autumn Term.—Staff.

Registration in each section is limited. Students must file departmental forms with the department assistant (417 Barnard Hall) before completing their programs.

4 points.

x: Section I Tu 2:10-4:00.

Section II W 2:10-4:00.

Section III W 2:10-4:00.

Section IV Th 2:10-4:00.

y: Section I Tu 12:00-1:50.

Section II Tu 2:10-4:00.

Section III W 2:10-4:00.

Section IV Th 2:10-4:00.

97x, 98y. Senior Seminars: Studies in Literature.

Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings. Class discussions, oral reports, and at least two research papers, one in 97 and one in 98. Students must have the written permission of the instructor and Professor Ebin (401B Barnard Hall).

Enrollment limited to seniors.

4 points.

97x. I. Text and Context.

Chaucer and Shakespeare: The metamorphosis of the Troy story from *Troilus and Cresseide* to *Troilus and Cressida* examined in the light of the literary, historical, philosophic, and artistic materials which illuminate this myth.—L. Ebin.

W 2:10-4:00.

II. Studies in Tragedy: The Death of the Hero.

Greek, Elizabethan, classical French, and modern works, read in conjunction with significant theories of tragedy; Aristotle, Nietzsche, Frazer, Freud, and Artaud.—E. Dalton.

Th 2:10-4:00.

III. The King James Bible and the Literary Imagination.

The influence of biblical myth and story, language and style on poets, playwrights, and novelists selected from various periods of English and American literature.—R. Kivette.

M 2:10-4:00.

IV. Ancients and Moderns: The Pastoral Mode.

An investigation of pastoral forms and attitudes, with special emphasis on the survival of the mode in modern works. Readings to include Virgil, Spenser, Milton, Blake, Whitman, Hart Crane, and a range of modern works.—C. Schenck.

Th 12:00-1:50.

V. Literary Theory.

Fate of the literary work of art from 1800 to the present in the critical theory and discourse of various interpreters.—aesthetic, phenomenologist, formalist, structuralist, semiotic.—M. Kurrik.

Tu 12:00-1:50.

VI. The Narrative.

Exploration of styles and genres of narrative; ballads and other narrative poems, novels, novellas. Works by Defoe, Austen, James, Hardy, Woolf, and others.—R. Norman.

Tu 2:10-4:00.

98y. I. The Middle Ages.

—L. Ebin.

M 2:10-4:00.

II. The Renaissance.

—A. Prescott.

M 2:10-4:00.

III. The Eighteenth Century.

—J. Thaddeus.

Tu 2:10-4:00.

IV. Early Nineteenth Century.

—J. Morse.

Th 2:10-4:00.

V. Victorian to Modern.

—D. Robertson.

W 4:10-6:00.

VI. American Literature.

—A. Bendixen.

W 2:10-4:00.

Environmental Conservation and Management

Office: 334 Milbank Hall

Telephone: 280-5120, 3589, 5417

This program is organized and administered by a committee of members of the Departments of Biology, Geography and Geology:

Professor of Geography

Leonard Zobler (Chairman)

Professor of Biology

Patricia L. Dudley

Professor of Geology

John E. Sanders

Associate Professor of Biology

Frederick E. Warburton

Assistant Professor of Biology

Paul E. Hertz

The Program in Environmental Conservation and Management is one of the oldest in the United States, having been organized in 1949. In the tradition of a liberal arts education, this program is both scientifically and culturally sensitive to the human habitat. The program addresses the material and ethical issues arising from the world urban-technologic-population explosion which threatens the life-sustaining capacity of the earth. It draws its substance from the three disciplines directly concerned with natural animate and inanimate earth systems—biology, geography, and geology. This interdisciplinary approach is given unity by the holistic concept of the ecosystem, which links organic and inorganic materials in intricate renewal cycles.

The goal of the program is to acquaint students with the scientific and cultural nature of environmental issues, and to train and equip them with the requisite professional skills to identify field problems and to design preventive and remedial measures. The program seeks to respond to the broad array of student interests in the environment, which may be preparatory to careers in planning, resource management, environmental law and advocacy, forestry, wildlife and park management, outdoor recreation and teaching, public health, energy and mineral policy, architecture and the earth sciences. Several tracks are available for concentration: urban ecology, land and water management, coastal zone management, natural history, energy and mineral technology, waste disposal, biological conservation, environmental center operation, outdoor recreation and parks. Professional careers in these areas usually require further study; the Barnard program offers a firm foundation.

REQUIREMENTS FOR THE MAJOR

A total of 11 courses are required for the major, including

Biology 1,2

General Biology

Biology 8

Physiological Ecology

or

Biology 19

Population and Community Ecology

Geography 1

Environmental Science

or

Geology V1021

Physical Geology

Geography 2

Environmental Science

Geography W4114

Conservation Theory

Envir. Con. & Mgt. 69, 70

Seminar

plus three approved advanced electives.

Environmental Conservation and Management

Students may follow a scientific or management-oriented program. Majors are encouraged to attend a summer field camp in conservation, ecology or earth science. Some assistance is available.

A senior essay, derived in part from original field or laboratory work, is required.

REQUIREMENTS FOR THE MINOR

No minor is offered in Environmental Conservation and Management.

COURSES OF INSTRUCTION

51x, 52y. Environmental Projects or Internships.

Special study projects in environmental science, field research, internships, and environmental issues of interest to the student. During the spring semester Conservation 52 will also be given as an internship-colloquium with environmental planning agencies.—Members of the Committee or B. Spatt for internship-colloquium.

Permission of chairman required.

3 points.

W 3:10-5:00 and 4-8 hours of internship per week for Course 52 with B. Spatt.

69x,70y. Seminar.

Reports and discussions of current individual or joint student field research culminating in the senior essay. Students are required to present their research to the seminar periodically.—L. Zobler.

Required of senior majors. Permission of the instructor required.

4 points.

Hours to be arranged.

Additional courses in the program are offered by Biological Sciences, Geography, and Geology. For complete description of the courses listed below consult department course listings.

Biological Sciences 3	<i>The Biology of Plants</i>
Biological Sciences 4	<i>Natural History of the New York Area</i>
Biological Sciences 7	<i>Invertebrate Zoology</i>
Geography 30	<i>Environmental Policy</i>
Geography 32	<i>Land Use in Metropolitan Areas</i>
Geography 33	<i>Elements of Urban Environmental Planning</i>
Geography 36	<i>Neighborhood Conservation</i>
Geography 46	<i>Environmental Monitoring</i>
Geography 61	<i>Urban Parks and Environmental Centers</i>
Geography W 4111	<i>Pedology and Soil Resources</i>

Geography W 4112	<i>Hydrology and Water Resources</i>
Geology 48	<i>Coastal Zone Management</i>
Geology W 4226	<i>Continental-Shelf Sedimentology</i>
Geology W 4927	<i>Principles of Oceanography</i>

Experimental Studies Program

Office: 8A Lehman Hall

Telephone: 280-3454, 5481

The Experimental Studies Program is supervised by the Experimental Studies Committee:

Professor of Art History

Barbara Novak

Professor, Program in the Arts

Jeanette Roosevelt

Professor of English

Barry Ulanov

Lecturer in Experimental Studies

Joan Dulchin (Director)

Professor of History

Annette Baxter

Professor of Political Science

Dennis Dalton

Assistant Professor of Psychology

Peter Balsam

The Experimental Studies Program provides students with the opportunity to expand and enrich their education through independent projects, internships, interdisciplinary studies, and other innovative approaches to learning.

The basic component of the Program, Experimental Studies 1,2, takes students out of the classroom to undertake independent work of a kind not provided for by regular departmental offerings—and then brings them back to the classroom to analyze and reflect on these activities and experiences. The students in ES 1,2 fall into two broad categories: those doing internships in New York City, exploring career and other interests, and those doing interdisciplinary research projects. Occasionally a student's project is primarily focused on mastering a special skill. In their projects, students can explore practical or interdisciplinary aspects of their major field of academic interest, or can extend their interests and abilities into new areas.

Recent projects include: medical illustration, writing case studies for a public health dentistry course, translating Spanish documents for the International League for Human Rights, doing research on the Cold War for a documentary film, exploring the connections between poetry and photography, working with developmentally delayed children, doing a study of the New York video community, working with a literary agent evaluating manuscripts, publishing a magazine on Venezuela for the United Nations newspaper, doing cancer research, and working on writing and singing projects. Students have recently held internships at the Vivian Beaumont Theatre, the Chinatown Health Clinic, Mount Sinai Hospital, WNYC Radio, New York Magazine, the Soho Weekly News, the Urban Homesteading Assistance Board, the New York Unemployed and Welfare Council, Family Planning Advocates, the International Indian Treaty Research Council, and the Multiple Sclerosis Society.

Experimental Studies Program

In addition to the supervision in the setting of their internships and projects, students choose Barnard faculty members (or, where appropriate, faculty members from other branches of Columbia University) to guide and supervise their work. Meetings with faculty sponsors usually occur every two weeks, and in addition to reading, writing or research required by the project, students are usually asked to keep journals in which they reflect on their activities and experiences. Beyond this individual supervision which focuses on the content of the project, the students in ES 1,2 meet weekly in seminars with the Director of the Program. In these seminars students discuss their projects with other students and analyze the social and cultural contexts in which their internships or projects are carried out. The students compare experiences and use these as bases for analyzing how organizations, institutions and professions work. Ethical, political, social and personal issues are discussed, including issues relating to women and careers. Evaluations for this pass/fail course are determined by the Director on the bases of the sponsors' evaluations and the student's contribution to the seminar.

Some of the issues raised in ES 1,2 are dealt with in the two interdisciplinary courses which complete the offerings of the Experimental Studies Program: ES 3, *Contemporary Feminist Thought*, and ES 4, *Issues in Experimental Education*. These courses function in the same fashion as other College courses.

Students may neither major nor minor in Experimental Studies.

REGISTRATION PROCEDURES FOR ES 1,2

Before the beginning of the semester each student who intends to register for ES 1 or 2 should follow these procedures:

(1) Develop a proposal for a project or an internship. A semester internship can be obtained through the Office of Career Services, or through the student's own contacts. A January or summer internship can be continued into the Spring or Fall, or can serve as the basis for a research project in Experimental Studies.

(2) Consult the Director of the Experimental Studies Program, who advises on the feasibility and appropriateness of the project plan, suggests possible faculty sponsors, and explains the project form.

(3) Arrange for a faculty sponsor.

(4) Return the project form, signed by the faculty sponsor, for approval by the Experimental Studies Committee.

(5) Sign up for either Section 1 or 2 of the weekly seminar.

COURSES OF INSTRUCTION

1x,2y. Experimental Studies Seminar.

For students doing independent or interdisciplinary projects or internships. In class discussion, students examine the social and cultural contexts of their projects, as well as the ethical, political, and personal issues that arise from them.—J. Dulchin.

Limited to students with approved project forms.

Mandatory pass/fail (this will be noted on transcript).

Enrollment limited to 40 students each semester (20 per section).

ES 1,2 may be taken for 1 or 2 semesters, in either order, and not necessarily consecutively.

3 points.

Section I W 2:10-4:00.

Section II Th 2:10-4:00.

3x. Contemporary Feminist Thought.

Developments in feminist thought since 1970. Reading and discussion of Millett, Firestone, Mitchell, Rosaldo, Rich, Chodorow and others in the social sciences and humanities.—J. Dulchin.

Enrollment limited to 25 students.

4 points.

M 2:10-4:00.

4y. Issues in Experimental Education.

Theoretical issues raised by the experimental education movement, with emphasis on the relationship between the traditional classroom and other social institutions.

Enrollment limited to 25 students.

Permission of the instructor required.

4 points.

Not offered in 1981-82.

Foreign Area Studies

Office: 321A Milbank Hall

Telephone: 280-5417

This program is supervised by the Committee on Foreign Area Studies:

Professor of Anthropology

Abraham Rosman

Professor of Chinese and Japanese

John Meskill (Chairman)

Professors of English

David A. Robertson, Jr.¹, Barry Ulanov

Professor of French

Serge Gavronsky

Professor of History

Chilton Williamson

Professor of Italian

Maristella de Panizza Lorch

Professor of Oriental Studies

Barbara Stoler Miller²

Professor of Political Science

Peter H. Juviler

Associate Professor of German

Gertrud M. Sakrawa

Associate Professor of Spanish

Marcelo Coddou

¹Emeritus and Special Lecturer

²Absent on leave, 1981-82

The purpose of Foreign Area Studies is to provide introduction to the study of some one foreign region or country of the world. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses, or other regions of concentration, may be chosen upon approval of the project by an adviser. Concentrations in African Studies can be arranged in certain departments; for information see advisers in Anthropology, Geography, History, and Political Science. For fuller descriptions of the courses listed, see under the appropriate department.

REQUIREMENTS FOR THE MAJOR

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirement varies according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

Asia (Adviser: Professor Meskill) See Oriental Studies, page 210.

Foreign Area Studies

British Civilization (Adviser: Professor Ulanov)

This program emphasizes historical and literary traditions of British Civilization and is comprehensive enough to include specialized interests in the fields of imperial and commonwealth studies. A student who wishes to major should plan, in consultation with her adviser, a program to include (a) four courses in history, (b) four additional courses, of which two must be in English literature, and (c) two courses in senior seminar in History or English.

European Studies (Adviser: To be announced)

A program for students with a strong base in European languages and a focused interest in contemporary European affairs. Students interested in one Western European country should also consult the subsection on Western Europe.

Requirements:

European Studies 2

European Nation-State Building: France, Germany, and Italy.

5 courses on one country or region, in more than one discipline. See the list of courses under Western Europe.

4 courses on general European subjects, to be selected after consultation with the program adviser.

2 courses of senior seminar under the direction of the program adviser.

Associated requirement (not counted towards the average in the major): competence (the equivalent of four Barnard semesters) in each of two European languages, usually French and German.

COURSES OF INSTRUCTION

European Studies 2. European Nation-State Building: France, Germany, and Italy.

Three European nation-states considered chronologically, thematically and comparatively. Recommended for all Western European majors.—Staff.

Prerequisite: History 11-12 or equivalent, or permission of the instructors.

3 points.

Tu Th 10:35-11:50.

Italian Studies (Advisers: Professors Colombo and Lorch)

The program aims to encourage the interest of students in contemporary Europe by focusing on Italy, both for its own sake and as a kind of test-case for the study of a rapidly changing European society. Its main core consists of a series of interrelated courses at Barnard College and Columbia University; among them are courses in Italian language, literature, history, art, economics, communications, sociology, anthropology and political science.

Specific programs are planned with the adviser on the basis of a major's particular interests and needs. In all a major must take at least 12 courses with concentration in one particular discipline:

Italian V 1301-V1302

Comprehensive Elementary and Intermediate Italian

or show sufficient proficiency;

Foreign Area Studies

The following courses are related to Italian Studies:

*Anthropology V 3007	<i>Peoples of Europe</i>
Art History 82	<i>The Literature of Art</i>
*Economics 25,26	<i>Contemporary Economic Issues</i>
*Economics G 4328	<i>Economic Development</i>
English 86	<i>Modern Drama</i>
History 18	<i>Italy in the Twentieth Century</i>
History 19	<i>European Diplomacy: 1914-1939</i>
*History 20	<i>The Second World War and the Recovery of Europe</i>
History 29	<i>European Communism in the Era of the Comintern</i>
History W 3206	<i>Europe since 1919</i>
*History W 4210	<i>Economic History of Europe</i>
History W 4215	<i>Italy since 1815</i>
History W 3250	<i>Foundations of 20th Century Thought</i>
History-Italian V 3197	<i>Dante's World</i>
Italian V 3335-V 3336	<i>Italian Written and Oral Style</i>
Italian V 3642	<i>Studies in Contemporary Italian Arts: Italian Film</i>
Medieval and Renaissance Studies 81	<i>Italian Renaissance Courts and the Theater</i>
Italian G 4725	<i>Pirandello and the Modern Theater</i>
Italian G 4785-G 4786	<i>Studies in Italian Theater</i>
*Political Science 2	<i>Comparative Politics</i>
*Political Science 7	<i>Modern Political Movements</i>
*Political Science W 3018	<i>Comparative Government and Politics</i>
*Political Science G 4431	<i>Left-Wing Parties and Social Transformation in Europe</i>
*Political Science G 4836	<i>International Communism</i>

*Permission of adviser required.

Latin America (Adviser: Professor Coddou)

A major consists of the five starred courses and five additional courses, two of which should be in one department and above the introductory level, chosen with the help of the adviser.

Anthropology V 3010	<i>Native South America</i>
Anthropology V 3029	<i>The Archaeology of the New World</i>
Anthropology W 3015	<i>Contemporary Latin America</i>
Anthropology W 4111	<i>Latin American Communities</i>
Art History V 3080	<i>Pre-Columbian Art</i>
Economics 29	<i>The Economics of Underdeveloped Areas</i>
Economics W 4321	<i>The Latin American Civilization</i>
Geography W 4201	<i>Latin America</i>
History W 4779-W4780	<i>History of Latin American Civilization</i>
Political Science G 4461	<i>Latin American Political Behavior</i>
Spanish 11	<i>Significant Themes of Contemporary Latin American and Spanish Literature</i>
*Spanish 15,16	<i>Spanish-American Culture</i>
*Spanish 31-32	<i>Literature of Latin America</i>
*Spanish 34	<i>Latin American Seminar</i>

Foreign Area Studies

Russia (Adviser: Professor Juviler)

The major consists of

4 years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar; and

8 courses distributed in the following subjects:

2 courses in Russian or Soviet literature (in translation or Russian);
2 courses in Russian history;
1 course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or Russian, etc.);
1 course in Soviet politics; and
2 semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.

One of the non-language courses is to be a colloquium. Specific programs are planned with the adviser on the basis of a major's particular interests and needs.

Art History G 4331	<i>Russian Art</i>
Economics W 4430	<i>Marxist Economic Theory</i>
Economics W 4524	<i>Economic Organization in Eastern Europe</i>
Geography W 4401	<i>Economic and Population Geography of the U.S.S.R.</i>
Geography W 4940	<i>Resources of the U.S.S.R.</i>
History W 3310	<i>History of Russia: 10th Century to Catherine the Great</i>
History W 3311	<i>History of Russia: 1796-1917</i>
History W 3965	<i>Intellectual Relations of Russia and Europe: 1815-1941</i>
History W 3975	<i>The Dissenting Tradition: Russian Writers and the State</i>
History W 4310	<i>History of Russia: 1649-1861</i>
History W 4311	<i>History of Russia: 1861-1917</i>
History W 4340	<i>Russian Science and Society</i>
History W 4350	<i>Women in Revolutionary and Soviet Russia</i>
Political Science 20	<i>Colloquium on Communism and Revolutionary Change</i>
Political Science 21	<i>Colloquium on Politics and Social Change in the U.S.S.R.</i>
Political Science W 3522	<i>Communist Political Systems</i>
Political Science G 4487	<i>The Dynamics of Soviet Politics</i>
Russian V 1224	<i>Introduction to Russian Culture</i>
Russian V 3333, V 3334	<i>Introduction to Russian Literature</i>
Russian V 3461	<i>Pushkin</i>
Russian V 3462	<i>Gogol</i>
Russian V 3463	<i>Tolstoy</i>
Russian V 3464	<i>Dostoevsky</i>
Russian V 3465	<i>Russian Poetry in the Nineteenth and Twentieth Centuries</i>
Russian V 3467	<i>Twentieth-Century Prose Writers</i>
Sociology W 4010	<i>State Socialist Societies of the U.S.S.R. and Eastern Europe</i>

Foreign Area Studies

Western Europe (Adviser: To be announced)

For the program on England, see British Civilization above. For other Western European countries, such as the French, German, and Spanish-speaking countries, a major consists of ten courses, including

- 2 courses in basic European history or 2 other history courses approved by the adviser;
- 2 courses in the literature of one country, in the original language;
- 4 more courses on the country, chosen with the help of the adviser; and
- 2 courses of a senior seminar, usually in History.

Europe

Anthropology V 3007	<i>Peoples of Europe</i>
Anthropology V 3038	<i>Ethnic Relations in Changing Societies</i>
Art History 75,76	<i>European Painting Since the Renaissance</i>
Art History 78,79	<i>Art from 1875-1975</i>
Economics 31	<i>The Development of Economic Thought 1770-1970</i>
History 11	<i>Main Currents of the Modern European World: Renaissance to the French Revolution</i>
History 19	<i>European Diplomacy</i>
History 20	<i>The Second World War and the Recovery of Europe: 1939 to Today.</i>
History 29	<i>European Communism in the Era of the Comintern: 1919-1943</i>
History 36	<i>European Intellectual Developments: 1789-1870</i>
History 37	<i>The European Enlightenment</i>
History W 3837	<i>Revolutions of 1848</i>
History W 4210	<i>Economic History of Europe</i>
History 91-92	<i>Senior Research Seminar in European History</i>
Political Science 7	<i>Modern Political Movements</i>
Political Science 13,14	<i>Political Theory</i>
Political Science W 3512	<i>Democratic Politics in Western Europe</i>
Political Science W 3801	<i>Western Europe Today</i>
Political Science G 4401	<i>Comparative Politics, Western Europe</i>

France

Art History 69	<i>French Architecture 1600-1800</i>
French 21,22	<i>Masterpieces of Literature from the Middle Ages to the Twentieth Century</i>
History 25	<i>The Establishment and Downfall of the French Monarchy: 1515-1789</i>
History 26	<i>France in Turmoil: 1789 to Today</i>

Foreign Area Studies

Germany

German 11
German 14
German 54
History W 4212
History W 4427-W 4428

Introduction to German Literature and Civilization
German Literature at the Turn of the Twentieth Century
German Intellectual History
German History 1862 to the Present
History of the Hapsburg Monarchy: 1683-1919

Italy

History 18
History-Italian V 3197
Italian V 3469
Italian V 3221
Italian V 3449-V 3450
Medieval and Renaissance Studies 81

Italy in the Twentieth Century
Dante's World
Renaissance Humanism
Machiavelli, Castiglione, Ariosto, and Tasso
Modern Italian Literature
Italian Renaissance Courts and the Theater

Spain

Spanish 13
Spanish 18
Spanish 23
Spanish 25,26

The Culture of Spain
Literature of the Golden Age
Nineteenth-Century Literature in Spain
Contemporary Spanish Literature, Part I and II

French

Office: 314 Milbank Hall

Telephone: 280-5417

Professors

Serge Gavronsky (Chairman), Renée Geen, Tatiana Greene

Adjunct Associate Professor

Patricia Terry¹

Assistant Professor

Elyane Dezon-Jones

Lecturers

Micheline Levowitz, Timothy Gastineau

Instructors

Marlène Barsoum, Anne Boyman, Joseph Brami, Claude Holland, David Nowak, Marie-Claire Picher

¹On leave, Fall Term

Courses in the French Department have a twofold objective: to perfect fluency in the written and the spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination, CEEB examinations) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test, offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French 4. For additional information about language courses, students should consult the department chairman.

Students who have satisfied the language requirement may take literature courses conducted entirely in French (courses 20, 21, 22, 23, 24), courses in which the readings are in French, but with lectures, discussions, and papers in English (47, 48), and advanced language course 6.

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad, page 11.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank). This is also where the Société Française de Barnard et de Columbia meets and plans its many activities, among them the annual production of a French play.

REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on literary history, literary terminology, and translation. Students will take the Major Examination, a written critical essay on a prepared question and an individual oral *explication de texte* (unless enrolled in the Senior Project (French 59, 60).

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

In consultation with the adviser of her choice, the student majoring in French may select either of the following options:

French

Language and Literature

Ten courses are required for the major.

French 21 and 22

or

French 23 and 34

2 of the following language courses:

French 12

French 13

French 14

French 15

French 16

French 17

Masterpieces of Literature from the Middle Ages to the Twentieth Century

The Culture and Institutions of France

History of the French Language

Advanced Composition and Grammar

Advanced Translation

Advanced Translation into French

Advanced Oral French

The Translation of Dialogue

Five literature courses chosen from 31-46; and

One-term seminar numbered 52.

Students with honor grades may choose to write a Senior Essay (French 59, 60A).

Translation and Literature

The major requires 10 courses:

French 21 and 22, or 23 and 34;

French 14 and two other advanced language courses chosen from courses 13, 15, or 17;

3 one-term literature courses numbered 31-46; and

the Senior Project (French 59, 60B).

The student is expected to declare her option by the end of the junior year. Either program may include additional courses in French literature and language, or in other subjects which vary with the interest of the student.

REQUIREMENTS FOR THE MINOR

Five courses are required for a minor:

2 advanced language courses (12-17); and

3 advanced literature courses (31-46).

A student who elects French as part of a combined, double, or interdisciplinary major will establish her individualized program with the departments concerned.

COURSES OF INSTRUCTION

LANGUAGE COURSES

All courses except 14 and 17, and French-Spanish 90 are conducted in French.

1x-2y. Elementary Full-Year Course.

Grammar, reading, composition.—Staff. Course Chairman: D. Nowak.

Enrollment limited to 20 students per section. Work in the language laboratory is required.

4 points.

Sections I M Tu W Th F 9:00. A. Boyman.

Section II M Tu W Th F 9:00. M. Barsoum.

Section III M Tu W Th F 9:00. D. Nowak.

Section IV M Tu W Th F 10:00. M.-C. Picher.

Section V M Tu W Th F 10:00. J. Brami.

2x. Review of Elementary French.

Oral and written review of basic grammar and syntax. Reading in modern literature, oral practice, free composition, translation.—Staff. Course Chairman: M. Barsoum.

Primarily for students who need further instruction to qualify for the intermediate course.

Enrollment limited to 20 students per section.

Work in the language laboratory is required.

3 points.

Sections I M W F 10:00. T. Greene.

Section II M W F 11:00. E. Dezon-Jones.

Section III M W F 12:00. J. Brami.

Section IV Tu Th 1:10-2:25. C. Holland.

Section V Tu Th 1:10-2:25. M. Barsoum.

3x. Intermediate Course.

Grammar and syntax. Reading in modern literature, oral practice, free composition, translation.—Staff. Course Chairman: T. Greene. *Prerequisite: Course 1-2, Course 2x, C1101-C1102, or an appropriate score on the placement test.*

Enrollment limited to 20 students per section. Work in the language laboratory is required. 3 points.

Section I	M W F 9:00. E. Dezon-Jones.
Section II	M W F 11:00. T. Greene.
Section III	M W 1:10-2:25. J. Brami.
Section IV	Tu Th 10:35-11:50. C. Holland.
Section V	Tu Th 10:35-11:50. T. Gastineau.
Section VI	Tu Th 1:10-2:25. M.-C. Picher.
Section VII	Tu Th 1:10-2:25. D. Nowak.

3y. Intermediate Course.

Equivalent of Course 3 but given in the Spring Term.—Staff. Course Chairman: M.-C. Picher. *Prerequisite: Course 1-2, Course 2x, C1101-C1102, or an appropriate score on the placement test.*

Enrollment limited to 20 students per section. Work in the language laboratory is required. 3 points.

Section I	M W F 10:00. E. Dezon-Jones.
Section II	M W F 10:00. T. Gastineau.
Section III	M W F 11:00. M.-C. Picher.
Section IV	M W F 12:00. E. Dezon-Jones.
Section V	Tu Th 1:10-2:25. C. Holland.

4x. French through Literary Analysis.

Study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French.—Staff. Course Chairman: M. Levowitz.

Prerequisite: Course 3 or an appropriate score on the placement test.

Enrollment limited to 20 students per section. Work in the language laboratory is required. 3 points.

Section I	M W F 10:00. A. Boyman.
Section II	M W F 10:00. C. Holland.
Section III	M W F 12:00. M.-C. Picher.
Section IV	Tu Th 9:10-10:25. T. Gastineau.
Section V	Tu Th 10:35-11:50. M. Barsoum.
Section VI	Tu Th 1:10-2:25. M. Levowitz.

4y. French through Literary Analysis.

Equivalent of Course 4x but given in the Spring Term.—R. Geen.

Prerequisite: Course 3 or an appropriate score on the placement test.

Enrollment limited to 20 students per section. Work in the language laboratory is required. 3 points.

Section I	M W F 9:00. J. Brami.
Section II	M W F 11:00. R. Geen.
Section III	M W F 1:10-2:25. E. Dezon-Jones.

Section IV Tu Th 10:35-11:50. T. Greene.

Section V Tu Th 10:35-11:50. D. Nowak.

Section VI Tu Th 1:10-2:25. M. Barsoum.

5x. Intermediate Oral French.

Intensive oral work. Pronunciation exercises, vocabulary enrichment through discussions on prepared topics, poetry recitation and theatrical presentations.—R. Geen.

Prerequisite: Course 2 or 3, or a satisfactory score on the placement test.

This course does not satisfy the language requirement.

Work in the language laboratory is required.

Enrollment limited to 15 students.

3 points.

M W F 10:00.

6x. Composition and Conversation.

Weekly compositions designed to improve writing skills, and to correct grammar and syntax. Pronunciation, vocabulary development, conversations, debates based on controversial themes, and selected literary readings.—A. Boyman.

Prerequisite: Course 4 or a satisfactory score on the placement test.

Enrollment limited to 15 students.

Work in the language laboratory is required.

3 points.

M W F 12:00.

6y. Composition and Conversation.

Equivalent of Course 6x but given in the Spring Term.—M. Levowitz.

Prerequisite: Course 4 or a satisfactory score on the placement test. Enrollment limited to 15 students.

Work in the language laboratory is required.

3 points.

Tu Th 10:35-11:50.

12y. History of the French Language.

Distinguishing characteristics of the French language in their relation to literary prose from the Middle Ages to the twentieth century. Analysis and translation of representative texts.—P. Terry.

Upperclassmen preferred.

Offered in alternate years. Offered in 1982-83.

3 points.

13x. Advanced Composition and Grammar Review.

Systematic study of morphology, syntax and idiomatic constructions; exercises, compositions, occasional translations into French.—T. Greene. *Nonmajors may take the course with the permission of the instructor.*

Offered in alternate years. Offered in 1982-83.

3 points.

French

14y. Advanced Translation.

Translation of various styles of prose and poetry from French to English.—P. Terry.
Nonmajors may take the course with the permission of the instructor.

Offered in alternate years. Offered in 1981-82.
3 points.

Tu Th 1:10-2:25.

15x. Advanced Translation into French.

Translation from English to French of various styles of prose and poetry.—R. Geen.
Nonmajors may take the course with the permission of the instructor.

Offered in alternate years. Offered in 1981-82.
3 points.

M W F 11:00.

16y. Advanced Oral French.

Spoken French stressing fluency, and acquisition of new vocabulary. Practice in pronunciation and intonation through conversations, debates based on newspaper articles, dramatic readings and oral *explication de texte*.—M. Levowitz.

Nonmajors may take the course with the permission of the instructor.

Enrollment limited to 15 students.

Work in the language laboratory is required.

3 points.

Tu Th 2:40-3:55.

17x. Advanced Translation: Theatrical Dialogue.

Translation of passages from French plays and movie scripts. Group and individual projects.—P. Terry.

Nonmajors may take the course with the permission of the instructor.

Offered in alternate years. Offered in 1982-83.
3 points.

French-Spanish 90x. Methodology of Foreign Language Teaching.

Methods course designed to train future teachers in theories and techniques of language teaching. Emphasis on teaching conversation, grammar, literature, translation, and lesson organization. Students will practice and demonstrate techniques. Video-taping of some sessions for auto-critique.—J. Crapotta.

Prerequisite: Knowledge of French or Spanish.
Primarily for sophomores and juniors in the Education Program, others by permission.
Offered in alternate years. Offered in 1982-83.
3 points.

LITERATURE COURSES

For nonmajors, the literature courses listed in this section will count toward the general requirement. Courses 47 and 48 are conducted in English.

20x. Special Themes in Modern French Literature.

Premonition of the Apocalypse.
The apocalyptic theme in modern dramatic literature. Writers include Ionesco, Beckett, Giraudoux, and Sartre.—M. Levowitz.

Prerequisite: Satisfaction of the language requirement in French.

Enrollment limited to 20 students.

3 points.

Tu Th 2:40-3:55.

20y. Special Themes in Modern French Literature: The Language of Poetry.

Tradition, freedom, variety, and invention in poetic expression in verse or prose texts, chiefly of the 19th and 20th centuries. Reports, discussions, comparison with other languages. Readings include: Verlaine, Rimbaud, Claudel, Apollinaire, Perse, Desnos, and others.—T. Greenne.

Prerequisite: Satisfaction of the language requirement in French.

Enrollment limited to 20 students.

3 points.

Tu Th 1:10-2:25.

21x, 22y. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

Scope and variety of French literature through analyses of significant works and currents from the Middle Ages to the twentieth century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: the Age of Enlightenment, Romanticism, Realism and Symbolism. French 21 may be taken for credit without completion of French 22.—R. Geen.
Prerequisite: Satisfaction of the language requirement in French.

3 points.

M W 1:10-2:25.

21y. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

Part I.

Equivalent of Course 21 but given in the Spring Term.—Instructor to be announced.

Prerequisite: Satisfaction of the language requirement in French.

Offered in 1982-83.

3 points.

22x. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

Part II.

Equivalent of Course 22 but given in the Autumn Term.—S. Gavronsky.

Prerequisite: Satisfaction of the language requirement in French.

Offered in 1982-83.

3 points.

23x, 24y. The Culture and Institutions of France.

Major cultural and institutional foundations of France from the Middle Ages to the present; the play of these forces on the contemporary period. Readings include historical, religious, and literary sources.—S. Gavronsky.

Prerequisite: Satisfaction of the language requirement in French.

Offered in alternate years. Offered in 1981-82. 3 points.

M W 1:10-2:25.

31y. The Middle Ages.

Medieval French literature in its historical and cultural context: *La Chanson de Roland*, the *Tristan* poems of Béroul and Thomas. Abélard, Chretien de Troyes, Marie de France and *La Quête du Saint Graal*. Certain of the texts will be read in Old French.—P. Terry.

Nonmajors may take the course with the permission of the instructor.

Prerequisite: Course 21, 22, 23, 24 or permission of the instructor.

Offered in alternate years. Offered in 1981-82. 3 points.

Tu Th 10:35-11:50.

32y. Renaissance and Classical Prose.

Fictional and non-fictional prose of the sixteenth and seventeenth centuries: Rabelais, Montaigne, Descartes, Pascal, La Rochefoucauld, Madame de Sévigné, Madame de La Fayette, Bossuet, La Bruyère.—T. Greene.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Enrollment limited to 20 students.

Offered in alternate years. Offered in 1982-83. 3 points.

33x. Renaissance, Baroque, and Classical Poetry.

Form, content, and aesthetics of poets from Marot to La Fontaine, including Marguerite de Navarre, Louise Labé, Maurice Scève, du Bellay, Ronsard, d'Aubigné, Sponde, other Baroque poets, Boileau, and Racine.—T. Greene.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Enrollment limited to 20 students.

Offered in alternate years. Offered in 1982-83. 3 points.

34y. The French Theater of the Seventeenth Century.

Corneille, Racine, and Molière.—R. Geen.

Prerequisite: Course 21, 22, 23, 24 or permission of the instructor.

Offered in alternate years. Offered in 1982-83. 3 points.

35y. Eighteenth-Century French Fiction.

Varieties of prose fiction, including selections from the works of Lesage, Marivaux, Prévost, Voltaire, Rousseau, Bernardin, Diderot, and Laclos.—R. Geen.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Offered in alternate years. Offered in 1982-83. 3 points.

37x. Nineteenth-Century French Poetry.

Poetry and poetics from Romanticism through Symbolism. The language of poetry, with attention to major figures, including Lamartine, Hugo, Nerval, Baudelaire, Verlaine, Rimbaud, and Mallarmé.—P. Terry.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Offered in alternate years. Offered in 1982-83. 3 points.

38x. The Nineteenth-Century French Novel.

Evolution of the novel, aesthetics of Romanticism, Realism and Naturalism. Authors will include Balzac, Stendhal, Flaubert, and Zola.—E. Dezon-Jones.

Prerequisite: Course 21, 22, 23, 24 or equivalent or the permission of the instructor.

Offered in alternate years. Offered in 1981-82. 3 points.

M W 1:10-2:25.

39y. Twentieth-Century French Theater.

Tradition and innovation in major French dramatists from Jarry and Apollinaire to Ionesco and Arrabal.—R. Geen.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Offered in alternate years. Offered in 1981-82. 3 points.

M W F 10:00.

40y. Twentieth-Century Fiction.

Theory and forms of the novel and other prose genres: Proust, *Du Côté de chez Swann*; Gide, *Les Faux-monnayeurs*; Malraux, *La Condition humaine*; Sartre, *La Nausée*; Camus, *L'Etranger*; Butor, *La Modification*; Robbe-Grillet, *La Jalouse*.—Instructor to be announced.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Offered in alternate years. Offered in 1982-83. 3 points.

41x. Twentieth-Century French Thought.

Definitions of language, revolution, and science in major texts from Surrealism to Structuralism: Breton, Aragon, Sartre, Camus, Barthes and Lévi-Strauss.—S. Gavronsky.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Offered in alternate years. Offered in 1982-83. 3 points.

French

42x. Twentieth-Century French Poetry.

Reality and literary language in contemporary poetry and poetics. Readings will include Apollinaire, Breton, Eluard, Michaux, Ponge and Pleynet.—S. Gavronsky.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Offered in alternate years. Offered in 1981-82. 3 points.

M W 2:40-3:55.

43x. French Women Writers.

Literary and cultural study of prose writers, poets, and influential groups, with emphasis on Louise Labé, the *Précieuses*, Madame de Sévigné, Madame de La Fayette, Madame de Staél, George Sand, Colette, Beauvoir, Sarraute, Duras, Rochefort, Vilmorin, Wittig, Cixous.—T. Greene.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Enrollment limited to 25 students.

Offered in alternate years. Offered in 1981-82. 3 points.

Tu Th 1:10-2:25.

44y. Materials and Techniques of French Poetry.

Theme, emotion, ideas and programs, and techniques such as meter, rhyme, rhythm, sound, set forms, images, metaphors and symbols, vocabulary, and the prose poem, from early French poetry to the Surrealists and recent poetry.—T. Greene.

Prerequisite: Course 21, 22, 23, 24 or the permission of the instructor.

Enrollment limited to 15 students.

Offered in alternate years. Offered in 1982-83. 3 points.

47x. Nineteenth-Century Poetics.

An examination of rhetorical practices in poetic discourse and the elaboration of an ideology of writing as a writer-text-reader dynamic. Authors include Hugo, Baudelaire, Nerval, Rimbaud and Mallarme.—D. Nowak.

Prerequisite: Satisfaction of the language requirement in French.

3 points.

Tu Th 10:35-11:50.

48y. Introduction to Literary Semiotics.

Introduction to the major theoretical works of Barthès, Lacan and Kristeva. Readings of selected literary works in the light of these theories.—A. Boyman.

Prerequisite: Satisfaction of the language requirement in French.

3 points.

Tu Th 2:40-3:55.

SEMINARS

The number of students in each seminar is limited and written permission is required in advance of registration period.

52y. Seminar for Senior Majors.

George Sand.—T. Greene.

4 points.

W 4:10-6:00.

59x, 60y. Senior Project.

A. Research into a precise topic of French literature and preparation of a long essay in French. Open to seniors with honor grades. Students electing a one-year senior project take four one-term literature courses numbered 31-46; the thesis defense constitutes the oral section. Course 59 or 60 may be taken alone with special permission. The thesis defense constitutes the oral section.—Staff.

B. Presentation and translation into English of a French text of significant length and literary value. Students taking this course as a one-semester project will take the written section of the major examination, the defense of the translation project constitutes the oral section. Students with honor grades may elect a one-year project; they are excused from the major examination; the defense of the translation project constitutes the oral section.—Staff.

Hours to be arranged.

STUDY IN PARIS

Columbia-Barnard Reid Hall Programs.

Reid Hall, at 4, rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard and Columbia Colleges. Barnard and Columbia sponsor three distinct programs there during the academic year. The programs are open to students with majors in all fields. To assure validation of credits students should work closely with their major advisers.

There are three semester-long institutes in French culture, language and literature. During the Autumn Semester, the institutes are conducted at the intermediate and advanced levels. During the Spring Semester only the advanced level institute is offered. The Spring Advanced Institute, however, includes the opportunity to take one or two courses in the French University system as well as fine arts and an anthropology course at Reid Hall.

INTERMEDIATE INSTITUTE

Open to all students, except freshmen, who have completed first year college French or the equivalent.

Autumn:

H 1201p. Intermediate Course, first half.
Emphasis on the spoken language, pronunciation, oral-aural drill. Reading of contemporary texts. Inductive study of grammar.
4 points.

H 1202q. Intermediate Course, second half.
Continued emphasis on spoken French; increased emphasis on reading and composition.
4 points.

H 3335q. Masterpieces of French Literature.
Analysis and discussion of major works of Medieval, Renaissance, and Classical literature. Introduction to methods of *explication de texte*.
4 points.

H 3445q. French Civilization and Culture.
French art and architecture, illustrating the periods approached through literature in H3335.

ADVANCED INSTITUTES

Open to students who have completed French 21, 22 or its equivalent.

Autumn:

H 3442p. Advanced Composition and Explication.
Morphology and Syntax. Readings from H3602 are used for analysis and *explication de texte* as well as for intensive training in composition.
4 points.

H 3446x. French Civilization and Culture seen through the Sociology of Literature.
France since World War II and its sense of its own past; its literature and ideology. Emphasis on political and historical structures and class systems and critical systems through the study of two or three literary texts.
4 points.

H 3602x. Contemporary French Literature.
Major trends in French thought since 1945, as they appear in poetry, fiction, criticism, and the theater; backgrounds in thought of the pre-war period.
4 points.

H 3604q. Seminar.
Art history of the twentieth century, with emphasis on contemporary art.
4 points.

Spring:

H 3442y. Advanced Composition and Explication.
Morphology and syntax. Readings from H 3602 are used for analysis and *explication de texte* as well as for intensive training in composition.
4 points.

H 3446y. Civilization of Modern France.
Same course as H 3446x.
4 points.

H 3602y. Contemporary French Literature.
Same course as H 3602x.
4 points.

H 3606y. Supervised Study in France.
Special study in the French University system under the supervision of the Director of Studies. Students select one or two courses given by departments in the area of their choice (Section I or II).
3 points.

Anthropology H 3820y. Ethnography of French Society.
The methods and goals of socio-cultural anthropology applied to the understanding of French society. Course is divided into five units, each dealing with a domain of social activity: e.g., kinship and the family, socialization, political behavior/institutions, religion and belief.—S. Rodgers.
3 points.

Fine Arts H 3710y. Fine Arts in Paris.
Focus on artists and architecture that can be studied to best advantage in Paris: Delacroix, Monet, Chartres, Versailles; and on artists whose work has a meaningful place in French history of art: Leonardo da Vinci, Rubens, Picasso.—O. Lorsignol.
3 points.

ACADEMIC YEAR PROGRAM

The two courses listed below constitute a full year's program. Primarily for juniors sufficiently advanced in French and in their majors (should the major not be French) to be able to profit from the program and particularly from the tutorial (H 3997-H 3998), in which a thesis is normally written under the direction of a French expert on the student's particular area of interest.

French

This program, designed to meet the needs of those students capable of immersion in the French University system and of direct communication with the tutor in the area of their choice, is distinguished by a tutorial. The program of courses is selected individually for each student. The tutorial consists of weekly hour-long meetings with the tutor and culminates in a thesis which is an original and carefully researched work. Eminent members of the French intellectual community serve as tutors.

Students register for appropriate courses in the French University system in major and elective fields. Both the course work and the tutor are selected in close consultation with the Director of Studies and with members of the appropriate Barnard or Columbia faculties.

H 3991x-H 3992y. Supervised Study in France. Special study under the supervision of the Director of Studies. The program requires that students follow the equivalent of 9 hours of class instruction per week per semester. Permission of the major adviser and the chairman of the Barnard Department of French is required.
3 to 9 points.

H 3997x-H 3998y. Supervised Study in France. Special research under the supervision of the Director of Studies involving individual work with an established specialist in the student's major field. Permission of the major adviser and the chairman of the Barnard Department of French is required.
2 to 6 points.

Geography

Office: 334 Milbank Hall

Telephone: 280-5120, 3589, 5417

Professor

Leonard Zobler (Chairman)

Adjunct Associate Professor

Beverly Moss Spatt

Adjunct Assistant Professor

Carole Swick

Lecturer

Toby Berger Holtz

Other officers of the University offering courses in Geography:

Professors

Robert A. Lewis, Kempton E. Webb

Assistant Professors

Paul E. King, Sarah McLafferty, Garry F. Rogers

Lecturers

S.R. Baker, Samuel N. Goward, Theodore Shabad

Geography studies the human uses of natural resources, and the locations and properties of resource-using systems. The continuing evolution of more powerful technologies with their capacities to upset local and planetary balances are linked to population growth, using demand and world urbanization that require global planning. Geography examines these issues in historic, contemporary, and futuristic spatial dimensions. A vital question is: how should humans plan to exploit the material resources of the earth and to allocate its space in the near and distant future among a range of competing activities?

The student of geography must be familiar with the behavior of earth systems in their natural field settings, as the atmosphere, hydrosphere, pedosphere, lithosphere, and biosphere, and the ways in which the technology of society directs their use and abuse. The ability to work with maps as recorders and sources of spatial information is necessary to expose interacting relations among natural variables. Classic maps are now supplemented by computer-generated maps with computer processed data obtained from remote sensing satellites. Geographic analysis is applied to urban and rural areas in developed and undeveloped regions to assess the growth potentials of their natural endowments. Geographers participate in the design of tomorrow's world at all spatial scales.

REQUIREMENTS FOR THE MAJOR

Ten courses are necessary for a major in Geography.

Geography 1,2

Environmental Science

Geography 59-60

Seminar in Geography

and 6 electives, selected according to the interest of the student.

The Senior Research Essay is prepared in Geography 59-60, based in part on a field problem that requires acquisition of raw data.

Several tracks are open to students—the natural earth sciences, urban and rural land planning, natural resources, teaching, regional studies, underdeveloped areas, mineral and energy supplies, industrial location, agriculture and food supplies, cartography. Supporting minors may be taken in architecture, anthropology, biology, economics, history, geology, political science, and computer graphics. In addition to a strategic selection of courses, students are encouraged to sample a rich array of offerings.

Geography

Students planning further studies are urged to take other sciences, and mathematics. Career opportunities are available in industry, government, engineering-planning-architecture-mining firms and teaching.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor:

Geography 1-2 and

3 elective courses that form a coherent program as, for example, urban planning or earth resources.

COURSES OF INSTRUCTION

1x, 2y. Environmental Science.

Global and local dynamics of natural systems of the planet Earth, and their capacities to satisfy human demands for land, food, water, energy, minerals, open space, waste disposal. Impact of population growth, technology, and urban lifestyles on planetary and regional equilibria. Autumn Term: physical processes of the atmosphere, hydrosphere, pedosphere, and lithosphere, and their vulnerabilities to human activities. Spring Term: ecosystem analysis of local and global processes in the biosphere, geographical ecology and biome classification; disturbances of the integrity of the environment by the technologies of modern agriculture and urban-industrial processes; remedial measures and planning a sustainable ecology for the future.—L. Zobler and Staff.

Courses may be taken separately or in any sequence with the approval of the Chairman. Enrollment limited to 80 students. Permission of the instructor required.

Laboratory required, including field work. Permission for laboratory assignment required. 4½ points.

Lecture M W 1:10-2:25.

Laboratory M 2:40-5:30, Tu 2:10-5:00, W 2:40-5:30, Th 2:10-5:00.

30x. Environmental Policy.

Development and implementation of planning policies at federal, state, and local levels to attain environmental and planning objectives: formal and informal methods of resolving conflicts over ecologic issues, and management of technology and land use, including environmental arbitration, citizen participation and impact studies; political geography of land and space management.—B. Spatt.

Offered in alternate years. Not offered in 1981-82.

Case study reports will be required.

3 points.

32x. Land Use Policy in Metropolitan Areas.

Environmental effects of alternate land use regulations on core-city, satellite-city and suburban areas. Public and private decisions and conflicts over land zoning.—B. Spatt.

3 points.

W 3:10-5:00 and an additional hour of directed work.

33y. Environmental Planning and Design.

Introduction to planning practice and land development in core cities and surrounding suburbs of metropolitan areas. Coordination of physical planning and design elements with natural and built landscape features at two geographic scales; area-wide location of key facilities and corridors and local siting of built structures. Landscapes and land uses in relation to regional planning goals.—C. Swick.

Permission of the instructor required.

3 points.

Tu 4:10-6:00, plus studio design projects.

35x. The New York Metropolitan Region.

Transformation of the tri-state area from a natural landscape into an urban metropolis. Geographic anatomy of the metropolitan region; internal locational patterns of industrial, commercial, residential and open space are considered in relation to transportation patterns and infrastructural facilities. Subregions of specialized activities and communities.—B. Spatt.

Enrollment limited to 20 students.

Three required half-day field trips.

3 points.

M 3:10-5:00.

Geography

36y. Neighborhood Conservation.

Microgeographic analysis of the urban neighborhood and its environment, morphology, boundaries, demography, form, appearance, and physical facilities; housing stock, streetscapes and local institutions; community change, cohesion, and deterioration, renewal measures and historic preservation; the contribution of the neighborhood to the health of the city. Students are assigned to a neighborhood for field work.—B. Spatt.

Field work, 1-2 hours a week.

3 points.

M 3:10-5:00, plus tutorials and field studies.

46y. Environmental Monitoring.

Design and use of surveillance methods to safeguard the quality of life and public health; air, water, soils, home and occupational safety, food and consumer goods, disposal of toxic substances and sanitary, industrial, and household wastes. Determination of background levels, setting of standards, and enforcement procedures, visits to public and private agencies. Instructor to be announced.

3 points.

Tu 4:10-6:00, plus several agency visits.

61x. Urban Parks and Environmental Centers.

Design and management of park and forest lands for competing multi-uses; park location, size, site selection, facilities, and services for community needs and regional planning; demand for outdoor recreation, aesthetic amenities, environmental education, timber and wildlife preservation; recreational resources of national, state, county, municipal, and private sanctuary parks and forests.—T. Spence.

Enrollment limited to 20 students.

Field trip required.

Not offered 1981-82.

3 points.

W 1019x. Spatial Organization of Society.

Introduction to human geography with emphasis on spatial patterns of human activity and social and economic processes underlying them; flow of information and decision making over space, perception of space, and the location of various forms of economic activity.—P. King.

3 points.

Tu Th 1:10-2:25.

W 4111x. Pedology and Soil Resources.

Introduction to biogeochemistry of soils and their genesis, morphology, and classification; ecology, management, and conservation of soils in different agricultural systems; evaluation, mapping, and planning of land sites for agricultural, open space, and urban uses.—L. Zobler.

Prerequisites: Earth science or permission of the instructor.

Enrollment limited to 25 students.

Offered in alternate years. Offered in 1982-83.

Two one-day required field trips. Permission for laboratory assignment required.

3 points.

W 4112x. Hydrology and Water Resources.

Hydrologic cycle analysis of surface and ground water flows and their application to water management in urban and rural areas; resource planning for potable supplies, waste disposal, and other uses; case studies of water quality and flood control problems.—L. Zobler.

Prerequisite: Earth science or permission of the instructor.

Enrollment limited to 25 students.

Offered in alternate years. Offered 1981-82.

Two one-day required field trips. Permission for laboratory assignment required.

3 points.

Lec: Tu Th 3:10-4:00. Lab: Tu or Th 4:10-6:00.

W4114y. Conservation Theory.

Dimensions of contemporary conservation issues as bases for making choices about social management of technology and the allocation of natural resources. Roles of ecologic, economic, historic, political, ethical, perceptual, and scientific factors in environmental policy-making. Natural resource models and decision methods, using biologic, mineral, energy, land use, and ambient case study examples. Students are required to analyze a specific problem or impact statement.—L. Zobler.

3 points.

Tu Th 1:10-2:00 and one hour tutorial.

W 3020x. Economic Geography.

Introduction to the economic factors in locational decisions and their relationships to distribution of world resources and industries. Directed to students who desire a survey of the systematic relationships between economic and spatial distributions, with emphasis on pertinent economic and geographic theory.—S. McLafferty.

3 points.

M 2:10-4:00 and one hour tutorial.

Geography

W 3071x-W 3072y. Quantitative Techniques in Geography.

Theory and techniques of measuring geographic distributions; descriptive and analytic methods (regression, factor analysis) useful in dealing with areal associations and interactions; "packaged" programs for displaying and analyzing spatial patterns; additional selected programs (point pattern analyses, frequency distributions, and taxonomic procedures).—

P. King.

3 points.

Tu Th 10:35-11:50.

W 4018y. Cartography.

Use of maps for illustrative and statistical purposes, as point, line, and area symbols, and for geographic analysis; survey of photogrammetry and remote sensing and of modern map production methods; experience in cartographic drafting, compilation, design and evaluation; use of aerial photographs in mapping and as map supplements.—M. Pinther.

\$20.00 fee. Studio course.

Enrollment limited to 20 students. Permission of the instructor required.

3 points.

M W 6:10-8:00.

W 4102y. World Energy Perspectives.

Survey of the world's energy position and spatial patterns and trends of energy resources in terms of their occurrence, production, and consumption; implications viewed from economic, social and political points of view.—Instructor to be announced.

3 points.

Tu 2:10-4:00 and one hour tutorial.

W 4022y. Location Theory.

Classical models to explain the location of economic activity. Spatial patterns of agriculture, manufacturing, and services; movement patterns and diffusion.—P. King.

3 points.

Tu 4:10-6:00 and one hour tutorial.

W 4039y. Medical Geography.

Mechanisms of diseases and their modes of transmission; effects of disease on settlement patterns, agricultural development, and landscape modification with special reference to major maladies; the influence man has on disease through economic development and manipulation of environment; special implications of medical care in the United States, including effects of innovation and distribution of health services delivery.—S. Baker.

3 points.

W 6:10-8:00 and one hour tutorial.

W 4041x. Urban Geography.

Recent contributions to theories of spatial development of urban places. Distribution of cities over space and concentration on their internal structure. Patterns of activities within cities and political, social, and economic bases that underlie urban structure.—P. King.

3 points.

M 6:10-8:00 and one hour tutorial.

W 4050x. Population Geography.

Concepts pertaining to population change: population policy, population growth, fertility, mortality, migration, select population characteristics, and food and resource problems related to population growth; impact of population change on society.—R. Lewis.

3 points.

M 4:10-6:00 and one hour tutorial.

W 4071y. Remote Sensing of the Environment.

Introduction to interpretation of remote sensing images; interpretation of land systems; vegetation, land forms, and soils; interpretation of socioeconomic data; settlement patterns, land use, and agricultural systems.—S. Goward.

Enrollment limited to 25 students. Senior majors preferred.

Laboratory of two hours per week required.

3 points.

M 10:00-11:50.

W 4075x. Introduction to Airphoto Interpretation.

Basic techniques and procedures of airphoto interpretation. Use of airphoto data in analysis of the physical environment, rural land use, and urban-industrial activity.—S. Goward.

Enrollment limited to 25 students.

Studio of two hours per week required: \$20 fee.

3 points.

W 10:00-11:50.

W 4128x. Biogeography: Resources from Biomass.

Geographic distribution of natural and man-modified ecosystems. Function and morphology of ecosystems and impact of human activity. Biomass resources for food, material, and energy.—G. Rogers.

3 points.

Tu 4:10-6:00 and one hour tutorial.

W 4201x. Latin America.

Physical and cultural geography of Latin America; systematic treatment of physical resource bases, pre- and post-Columbian landscapes, land use and tenure systems, spread of settlement, agriculture, agriculture and industry, regional variations of resource definition and political influence, migration and regional development schemes. Evaluations and projections focus upon current problems of the environment, urban growth, and population.—K. Webb.

*Offered in alternate years. Offered in 1981-82.
3 points.*

Tu 10:00-11:15 and one hour tutorial.

W 4401y. Economic and Population Geography of the U.S.S.R.

Analysis of the Soviet Union in terms of its natural resources, manpower, population, agriculture, environment, extractive industries, manufacturing, and urbanism. Regional economic development and societal impact of the economic geography of the U.S.S.R.—R. Lewis.

*Permission of the instructor required.
3 points.*

Tu 4:10-6:00 and one hour tutorial.

W 4900x. World Resources and Industries.

World, national, and regional resources viewed as bases of an international urban-industrial ecosystem, distribution of agricultural, mineral, and energy supplies and related processing industries, and their impacts on limits to growth; institutional and technological forces in resource-using systems that affect production and trade patterns through government intervention and operations of multinational corporations.—K. Webb, L. Zobler, S. Goward.

3 points.

W 2:10-4:00 and one hour tutorial.

W 4910y. The Geography of Hunger and Food Supply.

Worldwide and local perspectives on causes and consequences of hunger; regional and cross-cultural aspects of food consumption patterns, production parameters, distribution, marketing, and official intervention; methodologies for developing areas, including Brazilian experience and other case studies.—K. Webb.

3 points.

Tu 2:10-4:00 and one hour tutorial.

W 4940y. Resources of the U.S.S.R.

Evolution and evaluation of the resource bases of the Soviet Union; definition and location of resources with respect to areas of economic development and to the impact of resources on future economic development.—T. Shabad.

3 points.

W 12:10-2:00 and one hour tutorial.

59x-60y. Seminar in Geography.

Discussions and reports of student field and laboratory research leading to the senior essay. Students are required to present their progress to the seminar periodically.—L. Zobler.

Required of senior majors. Enrollment limited to senior majors. Permission of the instructor required.

4 points.

Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

Geology

Office: 328B Milbank Hall

Telephone: 280-4312

Professor

John E. Sanders

Other officers of the University offering courses in Geology:

Professors

Roger Batten, Wallace Broecker, Ian Dalziel, Rhodes Fairbridge, Arnold Gordon, Dennis Hayes, James Hays, John Kuo, Paul Richards, Christopher Scholz, Lynn Sykes¹, Anthony Watts

Adjunct Professors

Robert Jastrow, Marcus Langseth, Walter Pitman, Taro Takahashi

Associate Professors

Richard Schweickert, James Simpson, Scott Weaver, Warren Yasso

Adjunct Associate Professors

Roger Anderson, Dennis Kent, William B.F. Ryan

Assistant Professor

Charles Langmuir, G. Alan Zindler

Lecturers

William Collins, William Rossow

¹On leave, 1981-82

Geology is the scientific study of the Earth for the purpose of understanding how past activities have led to present conditions and of how present conditions affect the future. Modern geology involves application of mathematics, physics, chemistry, biology, and computers toward solving problems of the Earth as a planet in the Solar System, of the large-scale dynamics of the earth, of the locations of supplies of natural resources, of the fabric and history of the rock record, and of the origin and history of life. Geology can be applied at many levels, from providing a basis for understanding one's surroundings to background for careers in law, architecture, land-use planning, and real estate to professional careers in research.

Special resources for study of geology at Barnard include those within the College, within the University, and in and around New York City. Barnard facilities in Milbank Hall include the Geology/Geography departmental library and map collection, photographic darkroom, and sedimentology laboratory. Columbia University facilities in Schermerhorn Hall include teaching laboratories and collections of specimens, and a large research library. The Lamont-Doherty Geological Observatory offers the Geosciences Library, extensive collections of deep-sea sediments and sea-floor rock specimens and research facilities in geochemistry, seismology, marine geology and geophysics, mineral physics, and micropaleontology, all available to qualified undergraduate majors. The International Affairs Building houses a large collection of maps and U.S. government documents. New York City resources include the American Museum of Natural History with a large collection of research materials, the Goddard Institute of Space Studies, the public library, Engineering Society Library and United Nations Library.

Environmental Conservation and Management

Conservation is concerned with man's stewardship of the Earth as his home and the proper management of its resources. Students in the interdepartmental program in Environmental Conservation and Management who desire to concentrate in coastal studies are required to take as electives Geology W 4226, *Continental-Shelf Sedimentology*; 48, *Coastal-Zone Management*; and TK 5081 (Teachers College), *Coastal Oceanography*; and to carry out their research in some coastal project.

The core courses and further particulars of the program are found on pages

REQUIREMENTS FOR THE MAJOR

Students contemplating a major in geology should consult with the chairman of the department. Majors should plan their programs for their junior and senior years with a view toward including, as desired, courses that are offered only in alternate years. Those who are considering careers for which a doctorate is required should include two foreign languages (German, French or Russian are usually specified) in their programs, as well as the basic science background courses expected of geology majors (one year of physics, chemistry, and mathematics through calculus; familiarity with computers is desirable).

Various major options are possible, including but not limited to classical geology, with emphasis on biologic or nonbiologic aspects; geophysics; geochemistry; environmental geology; and Earth Sciences. Geological concentration in problems of the coastal zone is also possible in the interdepartmental program on Environmental Conservation and Management.

Majors should plan to spend at least one summer in geological mapping at an approved geologic field camp, in research activities at an oceanographic institution, or as a participant in an approved field research program being carried out elsewhere.

There is no major examination, but a satisfactory research paper prepared in conjunction with a senior seminar is required.

A minimum of 8 courses is required for the major, including

V 1021, V 1022

Physical Geology and Historical Geology

or

Astronomy-Geology V 1044-V 1045

Stars, Planets and Life I and II
Introduction to Mineralogy I and II
Introduction to Igneous and Metamorphic Petrology
Seminar in Geology

W 4113, W 4114

W4701

60

and one of the following courses

W 4327

Principles of Geomorphology

W 4201

Principles of Sedimentation

W 4221

Principles of Stratigraphy

W 4411

Principles of Structural Geology

Exceptions may be made with the approval of the chairman of the department.

REQUIREMENTS FOR THE MINOR

A minimum of 5 courses is required for the minor, including V 1021, V 1022 and any three upper-level courses.

Geology

COURSES OF INSTRUCTION

V 1021x. Physical Geology.

Composition and structure of Earth; internal and external forces acting upon it, and surface features resulting. Laboratory includes study of common rocks and minerals, of contour maps as means of depicting the Earth's morphology. Three required field trips to local geologic features.—J. Sanders and staff.

Enrollment limited to 120 students.

Field trips for 1981: beach trip Sept. 19 or 20; Edgewater, N.J. Oct. 2, 3, or 4; and Fort Tryon Park Oct. 9, 10, or 11.

4½ points.

Lecture M W F 10:00.

Laboratory (3 hours) M 2:10-5:00, Tu 9:00-11:50, 2:10-5:00, W 2:10-5:00, Th 9:00-11:50, or 2:10-5:00.

V 1022y. Historical Geology.

History of Earth and of life upon it from the beginning to modern times. The laboratory and assigned work include study of invertebrate fossils and of geologic maps and structures, museum trips, and a required one-day field trip. A research paper on a geologic topic is required. J. Sanders and staff.

Prerequisite: Course V 1021, Astronomy-Geology V 1044 or Geography I.

Enrollment limited to 120 students.

Research paper due on April 12, 1982.

Field trip to Rosendale, N.Y. April 23, 24, or 25.

4½ points.

Lecture M W F 10:00.

Laboratory (3 hours) M 2:10-5:00, Tu 9:00-11:50, 2:10-5:00, W 2:10-5:00, Th 9:00-11:50 or 2:10-5:00.

Astronomy-Geology V 1044x. Stars, Planets, and Life, I.

History of events in the Cosmos leading to formation of the solar system and life on the Earth; origin of the Universe; birth and death of stars; formation of the solar system; terrestrial planets and giant planets; properties of the Earth, Moon, Mars, and Venus from earth-bound and spacecraft observations; origins and history of life on Earth; impact of astronomical and geological changes on biological evolution; life and intelligence in the Cosmos; philosophical implications in the synthesis of astronomy, Earth sciences, and the history of life.—R. Jastrow.

4½ points.

Lecture Tu Th 6:10-7:25.

Laboratory Tu or Th, 3:00-5:50 or 7:25-10:15 p.m.

V 1053y. Planet Earth.

Accelerated look at how the earth works. The unifying concept of plate tectonics used to examine surface and internal processes in the

earth. The formation of the earth followed by a phenomenological analysis of the forces affecting the surface and the body of the earth with its heat engine, volcanism, seismology, magnetism, and gravity. Earthquake prediction, ridge-axis hot springs, volcanicity, and deep-sea drilling used to present basic concepts of earth science.—R. Anderson.

Prerequisite: High school physics, chemistry, and mathematics,

3 points.

Lecture Tu Th 6:00-7:15 p.m.

Astronomy-Geology V 1444x. Stars, Planets, and Life, I.

The same as course V 1044 but without laboratory.—R. Jastrow.

3 points.

Tu Th 6:10-7:25.

Astronomy-Geology V 1045y. Stars, Planets, and Life, II.

Selected topics from astronomy, geology and the history of life based on the subject matter of V 1044; new developments in the theory of natural selection.—R. Jastrow.

Prerequisite: Quality work in Course V 1044.

Enrollment limited to 20 students.

4 points.

Lecture Tu Th 6:00-7:25.

Laboratory Tu or Th, 3:00-5:50 or 7:25-10:15 p.m.

Astronomy-Geology V 1445y. Stars, Planets, and Life, II.

The same course as V 1045, but without laboratory.—R. Jastrow.

3 points.

Tu Th 6:00-7:25.

V 1446y. Earth's Oceans and Atmosphere.

Ocean and atmosphere circulation acting jointly to distribute solar energy over Earth promoting a hospitable environment. Ocean and atmosphere and their interaction over a wide spectrum of time and space scales; the climate and weather of both the ocean and atmosphere; computer simulations of the Earth's climate; occurrences of ocean/atmosphere/climate anomalies.—A. Gordon.

High-school physics, chemistry and mathematics recommended.

3 points.

Tu Th 10:00-10:50.

V 3522y. Exploration Geology and Mining Geophysics, I.

Geological environment of mineral deposits and their structural control. Orogenetical principles as a guide to mineral deposits. Geochemical and geophysical anomalies related to mineral deposits, their detection and interpretation.—J. Kuo, and W. Collins.

Geology

Prerequisites: Courses V 1021 and V 1022.

3 points.

Hours to be arranged.

W 4008x. Introduction to Atmospheric Science.

Basic physical processes controlling structure of atmospheres of Earth and other planets; thermodynamics; radiative transfer; principles of atmospheric dynamics; cloud processes; climate and evolution of atmospheres; models of atmospheres of Earth, Mars, Venus and Jupiter based on latest spacecraft observations.

—W. Rossow.

Prerequisite: Advanced calculus and general physics or permission of the instructor.

3 points.

M W 9:10-10:30.

W 4009x. Chemical Geology.

Thermodynamics as applied to Earth systems.

—W. Broecker.

3 points.

Tu Th 4:10-6:00.

W 4113x. Introduction to Mineralogy, I.

Elementary crystallography and crystal structures, optical properties of minerals, mineral associations and phase equilibria, economic minerals. Laboratory: identification of minerals in hand specimen, chemical and physical tests, and use of petrographic microscope.—S. Weaver.

Prerequisite: V 1021, V 1022, and elementary college physics, and chemistry, or permission of the instructor. Given in sequence with Course W 4114.

Enrollment limited to 20 students.

3 points.

Lecture Tu Th 11:00.

Laboratory Tu 1:00-4:00.

W 4114y. Introduction to Mineralogy, II.

Point-group symmetry and external crystal form, crystal chemistry and crystal structures, principles of X-ray diffraction. Laboratory: determination of optical properties of minerals and identification of minerals using X-ray diffraction techniques.—S. Weaver.

Prerequisite: Course W 4113.

Enrollment limited to 20 students.

3 points.

Lecture Tu Th 11:00.

Laboratory Tu 1:00-4:00.

W 4201x. Principles of Sedimentation.

Sedimentary particles and processes by which these particles originate, are transported, and are deposited. Primary sedimentary structures. Conversion of sediments to sedimentary rocks. Interpretation of sedimentary rocks. Laboratory studies emphasize microscopic study of sediments and sedimentary rocks and megascopic study of primary sedimentary structures.—J. Sanders.

Prerequisite: Course W 4113 and permission of the instructor.

Three one-day field trips to be arranged.

3½ points.

Lecture W 2:10-4:00.

Laboratory M 1:10-4:00.

W 4221y. Principles of Stratigraphy.

Part I. Classical stratigraphy: historical and philosophical foundations of geology, principles of classification and correlation. Part II. Tectonics and sedimentation: geosynclinal theory and orogeny; plate tectonics; analysis of convergent- and divergent-plate boundaries. Evaluation of mountain belts in terms of plate-tectonic theory.—R. Schweikert.

Prerequisite: Course W 4701.

3 points.

M W F 10:00.

W 4226y. Continental-Shelf Sedimentology.

Theory and techniques of modern marine sedimentology, including physical processes of deposition and diagenesis.—J. Sanders.

Prerequisite: Courses W 4113, W 4661, and college chemistry, and use of polarizing microscope. One-day field trips. Estimated field trip fee is \$10.00.

Offered in alternate years. Offered in 1981-82.

3 points.

Lecture W 2:00-4:00.

Laboratory M 2:00-4:00.

W 4327x. Principles of Geomorphology.

Lectures, map study, and readings on geomorphic principles. Origin of surface features of Earth as controlled by interaction between geologic structures and erosional processes.—R. Fairbridge.

Prerequisite: One year of geology or permission of the instructor.

4 points.

Lecture M W F 11:00.

Laboratory W 12:00-12:50, plus additional hour of laboratory to be arranged.

W 4411y. Principles of Structural Geology.

Elementary stress and strain theory; stress and strain determination from geologic structures, folds, and faults; geologic structures of divergent, transform, and irregular plate boundaries. Laboratory work consists of time analysis of geologic structure in maps, cross-sections, hand specimens, and thin sections. Mandatory field trip. Students may undertake additional reading and prepare a term paper rather than attend the laboratory.—I. Dalziel.

Prerequisites: Courses V 1021 and V 1022 or the equivalent for all students; Courses W 4114 and W 4701 for students attending laboratory.

3 points.

Lecture Tu Th 10:00-10:50.

Laboratory Th 1:10-4:00.

Geology

W 4661x. Introduction to Paleontology.

Morphology, ecology, taxonomy, and geologic history of groups of invertebrates commonly found as fossils.—R. Batten and J. Hays.

Prerequisite: Courses V 1021 and V 1022.

Permission of the instructor required.

Enrollment limited to 20 students.

Offered in alternate years. Offered 1981-82.

3 points.

Lecture M W 11:00.

Laboratory hours to be arranged.

W 4701y. Introduction to Igneous and Metamorphic Petrology.

Compositional characteristics of igneous and metamorphic rocks as indicators of their genesis and evolution. Petrologic aspects of Earth's crust and upper mantle. Development of igneous and metamorphic rocks in a plate-tectonic framework. Students not majoring in terrestrial geology may elect to write a substantial term paper rather than attend the laboratory.—C. Langmuir.

Prerequisite: Courses V 1021 and V 1022.

Course W 4113 and knowledge of chemistry recommended.

3 points.

Lecture Tu Th 12:00.

Laboratory hours to be arranged.

W 4883x. Principles of Geochemistry.

Introduction to origin of chemical elements; processes responsible for chemical make-up of the solar system and Earth; geochemical cycles presently operating in Earth's atmosphere, hydrosphere, and lithosphere.—G. Zindler.

3 points.

Tu Th 10:35-11:50.

W 4884y. Organic Geochemistry.

Survey of organic geochemistry suitable for students with a strong chemistry background majoring in geology, chemistry, or biology. Origin of organic compounds in oceans, lakes, and sediments; and transport and fate of organic pollutants.—R. Bopp.

Prerequisite: One year college chemistry. Courses V 1021 and V 1022, or the equivalent.

Permission of the instructor required.

Offered in alternate years. Not offered in 1981-82.

3 points.

W 4927x. Principles of Oceanography.

Properties of sea water; water masses and their distribution; sea-air interaction influence on ocean structure; basic oceanic circulation pattern; relation of diffusion and advection with respect to distribution of dissolved chemical species within the sea.—A. Gordon and J. Simpson.

A sound background in mathematics, physics, and chemistry is recommended.

3 points.

Tu Th 1:10-2:25.

W 4928x, W 4928y. Submarine Geology.

Survey of the geology of deep-sea topography, sediments, crustal rocks, tectonic- and sedimentary processes.—D. Hayes and W. Ryan.

Prerequisite: Courses V 1021 and V 1022 or the equivalent.

3 points.

Tu Th 11:55-1:10.

W 4941x. Principles of Geophysics.

Structure of Earth as inferred from geophysical investigation. Principles of measurement and interpretation. Gravity, isostasy, earthquake seismology, refraction and reflection methods, geomagnetism, marine geophysics.—D. Hayes.

Prerequisites: Calculus through Mathematics V 1202 and Physics through Physics C 1007.

3 points.

Tu Th 1:30-2:50 at Lamont-Doherty.

W 4948y. The Ocean Floor.

History of the ocean floor: sedimentary processes involved in its evolution.—J. Hays.

Permission of the instructor required.

3 points.

Hours to be arranged.

W 4949x. Introduction to Seismology.

Basic methods of seismogram analysis; classification of seismic waves and elementary theory of body waves and normal modes; elementary aspects of seismic prospecting, earthquake-source theory, instruments discriminating between explosions and earthquakes, inversion of seismic data to infer Earth structure, earthquake engineering, estimation of seismic risk, and earthquake prediction.—P. Richards

Prerequisite: One year of college physics and calculus. Permission of the instructor required.

3 points.

Tu Th 11:05-12:25.

Two-hour laboratory every other week to be arranged.

48y. Coastal-Zone Management.

Geologic, physical, biologic, and climatic factors in origin and present dynamics of various kinds of coasts, with emphasis on the coasts in New York area; mankind's use of coastal zones; problems in management; and governmental and private programs. Lectures, readings, discussions, outside speakers, individual research projects leading to a term paper, and at least four field trips.—J. Sanders.

Prerequisite: Courses V 1021 and V 1022, or Geography 1, 2, or the equivalent. Permission of the instructor required.

4 points.

F 1:10-3:00.

60y. Seminar in Geology.

Discussions, problems, and readings on various problems in geology.—J. Sanders.

Required of senior majors. Students should consult with the chairman at the beginning of the senior year.

Prerequisite: At least one year of geology.

4 points.

Hours to be arranged.

COLUMBIA COURSES

The following courses, listed by subdivisions of the Columbia Department of Geological Sciences, are open to qualified students with the permission of the Barnard chairman.

TERRESTRIAL AND MARINE GEOLOGY

W 3000y. Tutorial Study in the Earth Sciences.

TERRESTRIAL GEOLOGY

W 4049y. World Regional Geology. *Offered in alternate years. Offered in 1981-82.*

W 4053x. Geology of the New York Region. *Offered in alternate years. Offered in 1981-82.*

W 4222x. Phanerozoic Mountain Belts of North America. *Offered in alternate years. Offered in 1981-1982.*

W 4501y. Introduction to Economic Geology. *Offered in alternate years. Offered in 1981-1982.*

GEOPHYSICS: SEISMOLOGY AND ROCK MECHANICS

W 4415y. Principles of Rock Deformation. *Offered in alternate years. Offered in 1981-1982.*

W 4521x. Exploration Geology and Mining Geophysics, II.

W 4942. Geophysical Methods. *Offered in alternate years. Offered in 1981-1982.*

W 4945x. Geophysical Theory I.

W 4946y. Geophysical Theory II.

W 4947y. Plate Tectonics.

PALEONTOLOGY AND PALEO-ENVIRONMENT

W 4030y. Climatic Change. *Offered in alternate years. Offered in 1982-83.*

W 4035y. Introduction to Tree-ring Analysis. *Offered in alternate years. Offered in 1981-82.*

ENVIRONMENTAL GEOCHEMISTRY

W 4885x. The Chemistry of Continental Waters and Air. *Offered in alternate years. Offered in 1982-83.*

MINERALOGY AND PLANETARY SCIENCE

W 4122x. Advanced Mineralogy.

W 4130y. Thermochemical Mineralogy.

OCEANOGRAPHY AND METEOROLOGY

TK 5081x (Teachers College). Coastal Oceanography. (formerly TK 4802)

SUMMER COURSES

S 3070. Field Research.

S 4020. Field Geology. *Not offered regularly. Not offered in 1982-83.*

German

Office: 320 Milbank Hall

Telephone: 280-5417

Professor

Brigitte L. Bradley (Chairman)

Associate Professor

Gertrud M. Sakrawa

Lecturer

Regina Ayre

Instructor

Brunhilde Linke

Associate

Marvin Shulman

Courses in the German Department are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, West Germany, East Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of Course 4, *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

On the elementary level, the department offers two tracks: 1) a full-year course, German 1-2, *Elementary Full-Year Course*, with an equal emphasis on reading, writing, and speaking; 2) two one-semester courses, German 7,8, *Elementary German: Reading Course*, with an emphasis on reading only. The second-track courses may not be used to fulfill the language requirement, and they do not qualify students for any of the literature courses taught in German. They are designed for students interested in acquiring only a reading knowledge of German.

Students who have completed, or have been exempted from, Course 4 may enroll in Course 5 or Course 6, *Advanced Oral German and Composition*, or in literature courses taught in German. Special permission is required for enrollment in German 61, 62, the *Colloquium* and *Senior Essay*, respectively.

The literature courses taught in German have the twofold objective of combining the study of significant works and cultural manifestations with advanced practice in the use of German both as a written language and as a medium of communication. The department recommends that German 11, *Studies in German Literature*, be elected as the first literature course. There are no prerequisites for courses in German literature in translation.

REQUIREMENTS FOR THE MAJOR

The major in German includes 9 courses—German 5 or 6, 11, and 61, and six additional literature courses taught in German. The major examination consists of a three-hour written section (in English) and of an individual oral examination of one-half hour (in German). With special permission a student may submit a senior essay (Course 62) in place of the written section.

The department advises majors to include in their programs a minor in another field, or to elect a double major. While a major in German prepares students for graduate study in German, both a major and, to a lesser degree, a minor in German prepare them also for advanced study in any subfield of a discipline in which competence in the German language and/or a knowledge of the culture of the German-speaking countries is either required or recommended.

A combined major includes a total of twelve courses, six of them in German: Course 5 or 6 and five literature courses taught in German, one of which may be Course 61. At the completion of her program, a student submits an essay on a topic representative of the two fields combined in her major.

REQUIREMENTS FOR THE MINOR

The minor in German requires five courses, German 5 or 6, 11, and three additional literature courses taught in German, one of which may be Course 61.

COURSES OF INSTRUCTION

LANGUAGE COURSES

1x-2y. Elementary Full-Year Course.

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Aural-oral exercises and intensive practice in pronunciation.—

M. Shulman and Staff.

Limited enrollment.

Work in the language laboratory is required.

4 points.

Section I M W F 9:00.

Section II M W F 10:00.

Section III M W F 12:00.

In addition each student must register in the Department for one of the following sections:

Section I Tu Th 9:00.

Section II Tu Th 10:00.

Section III Tu Th 12:00

1y. Elementary Full-Year Course Part I.

Same as Course 1, but given in the Spring Term.—Staff.

Limited enrollment.

Work in the language laboratory is required.

4 points.

M Tu W Th F 9:00.

2x. Elementary Full-Year Course. Part II.

Same as Course 2, but given in the Autumn Term.—Staff.

Limited enrollment.

Work in the language laboratory is required.

4 points.

M Tu W Th F 9:00.

FOR ELEMENTARY READING COURSE SEE ELEMENTARY GERMAN 7, 8.

3x. Intermediate Course I.

Complete grammar review through regular exercises. Texts by modern authors are used for close and rapid reading. Practice in conversation aims at enlarging the vocabulary necessary for daily communication.—Staff.

Prerequisite: Course 2 or the equivalent.

Limited enrollment.

3 points.

Section I M W F 10:00.

Section II M W F 1:10.

3y. Intermediate Course I.

Same as Course 3, but given in the Spring Term.—Staff.

Prerequisite: Course 2 or the equivalent.

Limited enrollment.

3 points.

M W F 10:00.

4y. Intermediate Course II.

German language based on a variety of literary texts: several short stories, one play, one short novel. Assignments include compositions in German and exercises of specific grammatical forms, both related to the texts. Class discussions in German provide oral and aural practice.—B. Bradley, G. Sakrawa.

Prerequisite: Course 3 or the equivalent.

Limited enrollment.

3 points.

Section I M W F 10:00.

Section II M W F 1:10.

4x. Intermediate Course II.

Same as Course 4, but given in the Autumn Term.—B. Bradley.

Prerequisite: Course 3 or the equivalent.

Limited enrollment.

3 points.

M W F 10:00.

5x, 6y. Advanced Oral German and Composition.

Practice to develop fluency in speaking and proficiency in writing. Autumn Term: Short readings as point of departure for discussions; weekly short papers; emphasis on idiomatic usage and syntactical structures. Spring Term: Advanced exercises in syntax and style; discussions and oral reports; short papers and essays; vocabulary building through emphasis on topical variety.—G. Sakrawa.

German

3 points.

M W F 12:00.

7x, 8y. Elementary German: Reading Course.

Comprehension of written German. Autumn: Extensive reading of simple expository texts, fundamental vocabulary, and the essentials of grammar and syntax. Spring: reading of materials in areas of specialization in the humanities, social sciences, and the natural sciences; attention is given to the structural forms encountered when translating German scholarly texts.—M. Shulman.

No previous knowledge of German is required for German 7.

3 points.

M W F 12:00.

LITERATURE COURSES

The literature courses listed below are conducted in German. For non-majors they will count toward the distribution requirement. Examinations are written in English. Papers may be written in German or English.

For courses conducted in English, see GERMAN LITERATURE IN TRANSLATION, Courses 50, 54, 55, and 56.

11x. Introduction to German Literature and Civilization.

Survey of German literature and civilization from the Age of the Reformation to the early twentieth century. Readings are selected from literary works representative of each period, and include brief excerpts from philosophical and socio-political writings. Key figures in the arts and music of each period are introduced.—B. Bradley.

Prerequisite: Course 4 or the equivalent.

3 points.

M W F 11:00.

14x. German Literature at the Turn of the Twentieth Century.

One of the richest and most diversified periods in the history of German literature: plays, prose writings, and poems by Hauptmann, Hofmannsthal, Kaiser, Hesse, Mann, Rilke, and Kafka. Works studied are characteristic of naturalism, neo-romanticism, symbolism, and expressionism.—B. Bradley.

Prerequisite: Course 4 or the equivalent.

Offered in alternate years. Offered in 1981-82.

3 points.

M W F 1:10.

15x. Goethe.

Major works of Goethe in the context of his life and his times: *Werther*, *Iphigenie*, *Tasso*, *Wahlverwandtschaften* and *Faust I*.—G. Sakrawa.

Prerequisite: Course 4 or the equivalent.

Offered in alternate years. Offered 1981-1982.

3 points.

Tu Th 10:35-11:50.

16x. The Romantic Movement in Germany 1790-1820.

Theory of Romantic Poetry as proposed by the Schlegel brothers; circles of Jena, Berlin and Heidelberg; prominent women of the time. Movement's impact on scholarship and translation, and on similar movements abroad. Poetic works by Tieck, Novalis, Hölderlin, Kleist, Hoffmann, and Eichendorff.—G. Sakrawa.

Prerequisite: Course 4 or the equivalent.

Offered every three years. Offered in 1982-1983.

3 points.

18y. Schiller's Dramas.

Schiller's dramas: his commitment to social and ethical questions, and his thought on the "aesthetic education of man."—G. Sakrawa.

Prerequisite: Course 4 or the equivalent.

Offered in alternate years. Offered in 1982-83.

3 points.

25y. German Prose and Drama from Büchner to Nietzsche.

Post-Romantic period of German literature in the nineteenth century: dramas by Büchner, Hebbel, Grillparzer, and Wagner; prose fiction by Heine, Keller, Stifter, and Storm; selections from the writings of Schopenhauer and Nietzsche.—G. Sakrawa.

Prerequisite: Course 4 or the equivalent.

Offered every three years. Offered in 1981-1982.

3 points.

Tu Th 10:35-11:50.

26y. Modern German Theater.

Brecht and well-known playwrights of the post-war period: Kipphardt, Frisch, Weiss, Plentzendorf, and Hacks. The plays are approached from the perspective of drama as performed on the stage in direct contact with a public audience, and the stage as a forum used to raise consciousness among the public.—B. Bradley.

Prerequisite: Course 4 or the equivalent.

Offered in alternate years. Offered in 1982-83.

3 points.

28y. Contemporary German Prose Fiction.
Selected works by post-war novelists: Böll, Andersch, Frisch, Grass, Wolf, and Handke. Analyses and discussions concentrate on predominant themes, on differences in narrative techniques, and on the effectiveness of fictional writings in exploring or exposing problems of individual and general concern.—B. Bradley.
Prerequisite: Course 4 or the equivalent.
Offered in alternate years. Offered in 1981-1982.
3 points.
M W F 11:00

36x. Goethe's Faust.
Intensive Study of Goethe's *Faust*, Part I and II.—G. Sakrawa.
Prerequisite: Course 4 or the equivalent.
Not offered regularly. Not offered 1981-82.
3 points.

45x. Literary Traditions in the Time of the Medieval Empire.
Introduction to the feudal age and to German literature from about 1200 to about 1400: *Parzival*, *Tristan und Isolde*, and *Das Nibelungenlied*. Texts used for reading are in modern German.—R. Ayre.
Prerequisite: Course 4 or the equivalent.
Offered every three years. Not offered in 1981-82.

46y. German Literature in the Eighteenth Century.
Four leading figures, Lessing, Wieland, Klopstock, and Herder, as introduction to the Age of Enlightenment in Germany.—G. Sakrawa.
Prerequisite: Course 4 or the equivalent.
Not offered regularly. Not offered in 1981-82.
3 points.

61x. Colloquium.
Topics change.—Staff.
Prerequisite: Course 4 or the equivalent.
Enrollment limited to 15 students.
Offered in alternate years. Not offered in 1981-82.
3 points.

62y. Senior Essay.
The topic must be related to one of the literature courses that the student has completed in the department.—Staff.
Open to senior majors. Permission of the instructor required.
3 points.
Regular consultations with the instructor at hours to be arranged.

GERMAN LITERATURE IN TRANSLATION

50x. Brecht and Grass.
A playwright whose work achieved worldwide recognition after 1945, and a novelist of the post-war period who became internationally known as the author of *The Tin Drum*. In addition to Brecht's plays on the one hand and Grass's novels on the other, readings include plays by Grass and narratives by Brecht.—B. Bradley.
A knowledge of German is not required.
Not offered regularly. Not offered in 1981-82.
3 points.

54y. German Intellectual History: Hannah Arendt.
Introduction to the work of Hannah Arendt set within the modern German theme of *praxis*, action: *The Human Condition*, *Between Past and Future*, *Men in Dark Times*, *Eichmann in Jerusalem*, *The Origins of Totalitarianism*, "Thinking and Moral Considerations."—Staff.
A knowledge of German is not required.
Not offered regularly. Not offered in 1981-82.
3 points.

55y. Women in Major Works of German Literature.
Major literary works of the Middle Ages, the Enlightenment, Classicism, Romanticism and 19th century Realism.—R. Ayre.
A knowledge of German is not required.
Offered in alternate years. Offered in 1981-82.
3 points.
M W 1:10-2:25.

56y. Modern German Literature.
English translations of selected novels and plays by representative writers of the 20th century; Kafka, Mann, Broch, Seghers, Brecht, Grass, Böll, Frisch, and Handke.—B. Bradley.
A knowledge of German is not required.
Offered in alternate years. Offered in 1982-83.
3 points.

Health and Society

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The Health and Society Program is supervised by an Executive Committee:

Samuel R. Milbank Assistant Professor of Health and Society

Nicholas Rango

Professor of Sociology

Bernard Barber

Adolph S. and Effie Ochs Professor of History

Andre Cournand¹

Professor of Physics

Richard Friedberg

A. Barton Hepburn Professor of Economics

Eli Ginzberg

University Professor

Robert K. Merton¹

Vice President for Academic Affairs and Dean of the Faculty

Charles S. Olton

Professor of Public Health, and Obstetrics and Gynecology

Zena Stein

Officers of the College and University participating in Health and Society:

A. Barton Hepburn Professor of Economics

Eli Ginzberg

Brookdale Professor of Gerontology

Abraham Monk

Samuel R. Milbank Assistant Professor of Health and Society

Nicholas Rango (Program Director)

Lecturers in Health and Society

Richard Neugebauer, Theresa Rogers

¹Emeritus

Health and Society is an interdisciplinary program created to address historical and contemporary issues in the field of health care from health science, social science, and humanistic perspectives. The Program has three objectives: to introduce the logical processes for establishing causes in the health sciences, to identify the limits of scientific knowledge in the health sciences, and to develop decision-making skills under conditions of scientific uncertainty. The Program applies this approach to undergraduate education by developing an interdisciplinary curriculum that focuses upon the distinction between and interconnection of scientific fact and value judgments.

Acquiring the substantive background and the methodological skills necessary to address problems in areas which do not adhere to traditional academic disciplines will prepare student for a variety of post-graduate options: graduate study in the social science or humanities, professional study in medicine and allied health areas, and careers in public health and health administration. Equally important, the Health and Society Program seeks to satisfy the intellectual needs of students not planning graduate study, but concerned about the social context of health and health care.

The annual Samuel R. Milbank Lecture in Health and Society was established in 1980 as a forum for extending the Program's thematic objectives beyond the classroom to the entire Barnard community. A distinguished scholar is invited to speak on the interaction of scientific knowledge and humanistic values in the health sciences.

Health and Society

"Not for Pre-Meds Only" is a career symposium co-sponsored each year by the pre-professional advisers at Barnard and General Studies, the office of Career Services, and the Health and Society Program to provide information and assistance on professional options in health and health care. More extensive exposure may be gained through a 10-week "Health and Society Summer Internship." Internships are available in the following areas: public health, health policy and administration, and social gerontology.

Students may neither major nor minor in Health and Society.

COURSES OF INSTRUCTIONS

1y. Fact and Value in the Health Sciences.

The course provides an historical and cultural overview of medicine and public health and introduces the societal context of health and health care. Problems defining and assessing states of well-being and illness, the logic of scientific inquire in the health sciences, fundamental concepts of public health biology, bases of clinical decision-making, values and value conflicts in clinical decision-making, and the imperatives of decision-making under conditions of scientific and clinical uncertainty will be addressed.—N. Rango.

Background in science not required.

Offered in alternate years. Offered in 1981-82.

3 points.

Tu Th 2:40-3:55.

4y. Introduction to Social Epidemiology.

Concepts of psychological and social factors of disease and its treatment; illness and life change; responsibility for health: professional, social, and personal.—N. Rango.

Background in science not required.

Offered in alternate years. Offered in 1982-83.

3 points.

6x. Social Gerontology.

The later stages of the human life cycle and current policies and programs for the aged: demographic changes in American society; the biological, clinical, social, psychological, and economic aspects of the aging process; problems affecting the aged; and the socially organized response to the needs of the elderly. Field activities at long-term care institutions and multi-service centers.—N. Rango with A. Monk, Brookdale Institute.

3 points.

WF 2:40-3:55.

7x. Mental Illness and Its Treatment: Historical and Contemporary Perspectives.

The history of psychiatric thought and treatment and the changing role of the mentally ill in Western societies. Clinical and epidemiological aspects of mental disorders, and diagnostic problems and ethical issues in psychiatric treatment. The effect of social and economic change on the prevalence, theory, and treatment of mental disorders.—R. Neugebauer.

Recommended: Health and Society I and some background in statistics.

3 points.

M W 4:10-5:25.

8y. Political Economy of Health Care.

Relation of medicine and society with particular reference to the organizational structure of the medical sector. Distribution of economic resources and changing political alignments; need for health reform; critical review of key proposals for new services. The interrelationship of economic, professional, and social factors in the creation and implementation of health policy. E. Ginzberg.

Prerequisite: One year's work in social science.

Enrollment limited to 35 upperclassmen.

Permission of the instructor required for sophomores.

3 points.

Tu 11:00-1:00.

11y. Institutionalization: Individual, Family, and Professional Perspectives.

Long-term institutionalization analyzed from three perspectives: individual patient, family, and professional. Conflicts of interest and ethical issues inherent in the decision of institutionalize or deinstitutionalize. Contemporary American institutions, including mental hospitals, home for emotionally disturbed children, homes for the retarded, nursing homes, and hospices.—N. Rango.

Prerequisite: Course 1 or 4.

Enrollment limited to 15 students.

Offered in alternate years. Offered in 1982-83.

4 points.

13x. Women, Health, and Health Care.

Changing perspectives of women in American society and the consequences of these changes for public policy, health education, and research priorities. Readings from clinical, social science, historical and psychological sources provide a context for study of the evolving relationship between women and the medical sector.—T. Rogers.

Permission of the instructor required.

Enrollment limited to 16 upperclassmen.

4 points.

Tu 4:10-6:00.

History

Office: 418 Lehman Hall

Telephone: 280-2159

Professors

Annette K. Baxter (Chairman), Robert A. McCaughey, Suzanne F. Wemple¹, Chilton Williamson

Associate Professor

Charles S. Olton

Assistant Professors

Darline G. Levy²

Other officers of the University offering courses listed below:

Professors

J. M. W. Bean, Stuart Bruchey, Richard Bulliet, Istvan Deak, John A. Garraty, Henry F. Graff, Leopold H. Haimson, William V. Harris, John Huehnergard, Nathan Huggins, Graham W. Irwin, Kenneth Jackson, Herbert S. Klein, Stephen Koss, Hollis R. Lynch, Edward Malefakis, John H. Mundy, Robert O. Paxton, Marc Raeff, Eugene Rice, William R. Roff, David J. Rothman, James P. Shenton, Morton Smith, Fritz Stern, Alden T. Vaughan, Marcia Wright, Yosef H. Yerushalmi

Associate Professors

Roger S. Bagnall (Greek and Latin), Kenneth R. Maxwell

Assistant Professors

Lawrence W. Dickey, Paula Hyman, Peter Onuf, Stephen Rittenberg, Rosalind Rosenberg, Michael Stanislawski

Lecturer

James Collins (Mellon Fellow)

¹Absent on leave, Spring Term

²Absent on leave, 1981-82

History, as knowledge of the past, touches all aspects of human experience. Historians' accounts of the past form a branch of literature in which factual statements can be verified in primary sources. History is studied to improve understanding of man in society—his failures and his achievements—and to acquire a sense of the relevance of the past to the present.

There are no prerequisites to or language requirements for Barnard History courses other than those indicated in individual course descriptions. No special permission is necessary for Barnard College students to register for lecture courses listed in this catalogue. Full course descriptions of Columbia College lecture courses will be found in the Columbia College catalogue. Written permission of the instructor is required for those wishing admittance to all seminars. Application forms for admission to Columbia seminars must be picked up from the Columbia departmental office, 523 Fayerweather, and submitted to the instructor. Meeting arrangements and structure of each seminar will be announced by the instructor at the beginning of the course.

A student with a score of 4 or 5 in the Advanced Placement Examination may receive credit, but only after certification by one of the faculty in the field.

REQUIREMENTS FOR THE MAJOR

Students who intend to major in history are urged to consult an adviser in the department at the beginning of the sophomore year in order to plan their academic programs for the remaining three years in college.

The major in History requires a minimum of eleven courses distributed as follows:

- 1) At least six courses in an area of concentration. Two of the six courses must be the senior research seminar in which the student will write a senior essay. While history majors usually concentrate on European or American history, they may, upon approval of the chairman, concentrate in any field of particular interest, such as ancient, medieval, Jewish, Oriental, African, cultural, or urban history.
- 2) At least three history courses outside the field of concentration.
- 3) At least two seminars, one of which may be an Introductory Seminar.

Two courses of the eleven may be taken in other departments provided that such courses are closely related to the student's field of concentration, and provided that she obtains the written permission of the major adviser.

Certain graduate courses, "G" courses, given at Columbia University are open to qualified majors with the consent of the chairman of the Barnard department and of the instructor. A description of these courses will be found in the Bulletin of the Graduate School of Arts and Sciences.

REQUIREMENTS FOR THE MINOR

Five courses are required for a minor in history, four in a concentration, and one outside the concentration. One of the five must be a seminar.

COURSES OF INSTRUCTION

LECTURES, ANCIENT, MEDIEVAL, AND MODERN EUROPEAN HISTORY

W 1001x. Ancient History of Egypt and Eastern Mediterranean.

J. Huehnergard.

3 points.

Tu Th 10:35-11:50.

W 1002y. Ancient History of Mesopotamia and Asia Minor.

J. Huehnergard.

3 points.

Tu Th 10:35-11:50.

W 1005x. Greece, Israel, and the Near East, 1200-336 B.C.

M. Smith.

3 points.

Tu Th 5:30-7:00.

W 1006y. Rome and the Mediterranean World.

W. Harris.

3 points.

M W 2:40-3:55.

W 4025y. The Origin, Rise and Triumph of Christianity.

M. Smith.

3 points.

Tu Th 5:30-6:45.

3x. The Early Middle Ages: 300 to 1050.

Fusion of Graeco-Roman, Judeo-Christian and Germanic traditions, and emergence of Europe as a cultural unit. Carolingian and Ottonian empires.—S. Wemple.

3 points.

Tu Th 10:35-11:50.

4y. The High Middle Ages: 1050-1450.

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings.—Instructor to be announced.

3 points.

Tu Th 10:35-11:50.

W 4270y. France in the Middle Ages.

M. Bean.

3 points.

Th 2:10-4:00.

W 1150x, W 1151y. Introduction to the History of Europe: From the Renaissance to the Present Day.

x: E. Rice; y: J. Mundy.

3 points.

M W 6:10 plus a third hour to be arranged.

History

Hist 13 Renaissance Prof. Long
Hist 14 Reformation Prof. Long
Hist 17 Science, Technology Prof. Long
& The Arts, 1400-1700 Tu 8:10
W 3205x. European Politics and Society, 1870-1919.

11x. Main Currents of the Modern European World: Renaissance to the French Revolution. Forces—cultural, social, political, economic—which established modern Europe and brought it into contact with the rest of the world.—Instructor to be announced.

3 points.

M W F 11:00.

McNeil

25x. Establishment and Downfall of the French Monarchy: 1515-1789.

Cultural, intellectual, political, social and economic developments that brought into existence the monarchy of Louis XIV and led to its collapse.—D. Levy.

Not offered regularly. Not offered in 1981-82.
3 points.

35x. European Intellectual History: 1600-1789. Social, political, economic, religious, and scientific thought and the arts in Europe from the post-Reformation period through the Age of the Enlightenment.—D. Levy.

Not offered regularly. Not offered in 1981-82.
3 points.

12y. Main Currents of the Modern European World: The French Revolution to Today.

French Revolution, nineteenth-century industrial revolutions, romanticism, liberalism, nationalism, socialism, and imperialism, and twentieth-century wars, revolutions, dictatorships, and aspirations.—Instructor to be announced.

3 points.

M W F 11:00.

McNeil

W 3162y. Origins of Capitalism.

J. Smit.

3 points.

Tu Th 10:35-11:50.

W 3217x. European Intellectual History, 1830-1933.

L. Dickey.

3 points.

Tu Th 9:10-10:25.

W 3223x. The Political Culture of Modern Britain, 1760 to the Present.

S. Koss.

3 points.

M W 2:40-3:55.

26y. France in Turmoil: 1789 to Today.

Cultural, intellectual, political, social, and economic developments that have kept France in turmoil from the French Revolution to Charles de Gaulle.—D. Levy.

Not offered regularly. Not offered in 1981-82.
3 points.

W 3205x. European Politics and Society, 1870-1919.

Instructor to be announced.

3 points.

Hours to be arranged.

W 3206y. Europe since 1919.

Instructor to be announced.

3 points.

Hours to be arranged.

19x. European Diplomacy: 1914-1939.

Origins and impact of the First World War; “new diplomacy” and peace settlements; emergence of new political systems; attempts to attain stability in the twenties; collapse of the thirties.—Instructor to be announced.

3 points.

Tu Th 10:35-11:50.

McNeil

20y. The Second World War and the Recovery of Europe: 1939 to Today.

Second World War and its legacy; United Nations; rival groups and Cold War; the new place of Europe in the world.—Instructor to be announced.

3 points.

Tu Th 10:35-11:50.

McNeil

66y. The British Empire—Commonwealth from the American Revolution to the Present. Shifting balance of power between Great Britain and her overseas possessions.—C. Williamson. Offered in alternate years. Offered in 1981-82.
3 points.

M W F 11:00.

W 4310x. Survey of Russian History, 1613-1855.

Instructor to be announced.

3 points.

Hours to be arranged.

W 4311y. History of Russia, 1855-1921.

L. Haimson.

3 points.

Tu Th 4:10-5:25.

W 4531x. History of the Jews in Eastern Europe from 1917 to the Present.

M. Stanislawski.

3 points.

M W 11:00-12:15.

SEMINARS, ANCIENT, MEDIEVAL, AND MODERN EUROPEAN HISTORY

1y. Introductory Seminar: History and Psychoanalysis.

Problems in applying concepts of depth psy-

chology to historical interpretation.—D. Levy.
Primarily for freshmen and sophomores. Admission by written permission of the instructor.
Offered in alternate years. Not offered in 1981-1982.
4 points.

W 3985x. Introduction to World History.
Non-chronological comparative analysis of basic social and economic structures, cultural patterns, and political systems, primarily in Europe and Asia. Interrelationships between religion and politics.—E. Malefakis.
Permission of the instructor required.
4 points.
W 4:10-6:00.

W 3575x-W 3576y. Israelite, Jewish and Christian Historiography.
M. Smith.
4 points.
Tu 3:30-5:10.

2y. Introductory Seminar: Law and Society in the Middle Ages.
Permutations of law in the context of early medieval and feudal judicial systems and family law. Introduction to research in the history of Roman, Germanic and feudal codes.—S. Wemple.
Not offered regularly. Not offered in 1981-82.
4 points.

6x. The History of Women in the High Middle Ages.
Origins of the legal and social position of women in medieval society as reflected in patristic writings, and Roman and Germanic codes. Contributions of women in the high and late Middle Ages to feudal and urban society, courtly love, monasticism, mysticism, medicine and literature.—S. Wemple.
Prerequisite: Courses 3 and 4.
Offered in alternate years. Not offered in 1981-1982.
4 points.

W 3777y. Medieval Social History.
J. Mundy.
Tu 4:10-6:00.

History-Italian V 3197x. Dante's World. Introductory Seminar.
Historical background of Dante's political, social and ethical thought and literary analysis of its poetical rendering. Major theological themes in medieval thought as a background to and influence upon the *Divine Comedy*. Development of visual arts and ideas especially in the painting of Giotto.—M. Lorch and S. Wemple with participation of H. Davis and E. Cousins.

Offered in alternate years. Not offered in 1981-82.
3 points.

W 3916x. Law and Government in Medieval England.
M. Bean.
4 points.
W 4:10-6:00.

W 3917y. Common Law and Parliament in England, 1529-1760.
M. Bean.
4 points.
W 4:10-6:00.

W 3942y. Social Discontent in Western Europe, 1400-1700.
J. Collins.
4 points.
Hours to be arranged.

37x. The European Enlightenment.
Intellectual origins of the Enlightenment; Enlightenment ideas in their social and intellectual setting; influence of the Enlightenment on the French Revolution.—D. Levy.
Permission of the instructor required.
Enrollment limited to ca. 15 students.
Not offered in 1981-82.
4 points.

32y. Women in Revolutionary Paris: 1789-1795.
Political attitudes and behavior of women in revolutionary Paris. Themes of feminist politics, welfare politics, and politics of subsistence.—D. Levy.
Prerequisites: A reading knowledge of French, an introductory European history course, and permission of the instructor. A course in the French Revolution is desirable.
Enrollment limited to ca. 10 students.
Not offered regularly. Not offered in 1981-82.
4 points.

36y. European Intellectual Developments, 1789-1870.
French revolutionary ideology: conservatism, romanticism, liberalism, utopian socialism, Hegelian idealism, Marxism, positivism, Darwinism, naturalism.—D. Levy.
Permission of the instructor required.
Enrollment limited to ca. 15 students.
Not offered regularly. Not offered in 1981-82.
4 points.

W 3921y. Politics of History in France, 1815-59.
L. Dickey.
4 points.
Tu 9:00-10:50.

History

W 3996x. Institutions and Ideas in 17th and 18th Century Europe.

M. Raeff.

4 points.

M 2:10-4:00.

W 3959x. The Life and Lifetime of Winston Churchill.

Events in English and world history from 1874 to 1965, reflected in the writings, experiences, and career of the statesman whose lifetime and controversies spanned nine decades. Churchill's own appraisals will be considered in conjunction with those of his contemporaries and later scholarship.—S. Koss.

4 points.

M 4:10-6:00.

W 3952y. Britain in the 1930's.

S. Koss.

4 points.

Tu 2:10-4:00.

W 3912y. The Political and Ideological Development of Russian Jewry.

M. Stanislawski.

4 points.

M 4:10-6:00.

W 3983y. Jews and Germans in Modern Times.

P. Hyman.

4 points.

W 11:00-12:50.

18x. Italy in the Twentieth Century.

Examination of political, social, economic, and cultural development of Italy from 1900 to the present. Fascist era and the problems of the Italian Republic after the Second World War.—Instructor to be announced.

Enrollment limited to 20 students.

Offered in alternate years. Offered in 1981-1982.

4 points.

Hours to be arranged.

29x. European Communism in the Era of the Comintern: 1919-1943.

Survey of the origins and development of the Communist parties of Western and Central Europe from the foundation of the Comintern to its dissolution in 1943. Comintern sections in Germany, Italy, Spain, and France.—Instructor to be announced.

Enrollment limited to 20 students.

Not offered regularly. Not offered in 1981-82.

4 points.

W3969y. The Army in European Politics and Society, 1815-1945.

I. Deak.

4 points.

M 4:10-6:00.

LECTURES. UNITED STATES HISTORY

W 1109x. Main Currents in American History, 1492-1877.

J. Garraty.

3 points.

Tu Th 5:40-6:30 plus third hour to be arranged.

W 4601x. American Beginnings: 1584-1763.

A. Vaughan.

3 points.

Tu Th 10:35-11:50.

53x. American Colonial History.

Continuity and change in the major institutions of American society from 1607 to 1783.—C. Williamson.

3 points.

Tu Th 10:35-11:50.

W 4603y. The American Revolution.

P. Onuf.

3 points.

Tu Th 6:10-7:25.

54y. The American Revolution and its Aftermath.

Why and how the American people made a revolution, waged a war and climaxed their victories with the Federal Constitution.—C. Williamson.

3 points.

Tu Th 10:35-11:50.

51x. Survey of American Civilization to the Civil War.

The major theological and organizational concerns of seventeenth-century English colonists; the political and ideological process of defining an American; the social and economic forces that helped shape a distinctive identity; the inherent pressures that culminated in the nation's violent disruption in 1861.—R. McCaughey and assistants.

3 points.

M W F 10:00.

83x. American Intellectual History: From the Revolution to the Civil War.

An examination of the major intellectual themes—and their institutional manifestations—in the United States, including the American Enlightenment, the ideology of the Founding Fathers, the assertion of cultural independence; the Jacksonian temper; Transcendental and millenarian thought; racism and abolitionism.—R. McCaughey.

Course 51 recommended.

Not offered regularly. Not offered in 1981-82.

3 points.

W 3121x. America in the Era of Jacksonian Democracy.

J. Shenton.

3 points.

M W 2:40-3:55.

W 3122y. America in the Era of Disunion and Reunion.

J. Shenton.

3 points.

M W 2:40-3:55.

52y. Survey of American Civilization since the Civil War.

The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political and economic thought from Reconstruction to the New Deal; selected topics on post-World War II developments.—R. McCaughey and assistants.

3 points.

M W F 10:00.

84y. American Intellectual History: 1865-1918.

Major intellectual trends in the United States between Appomattox and World War I, including Darwinism, mugwumpery, emergence of the American university, cataclysmic thought in the '90's, the Progressive temper, the crisis of the Pragmatists in 1917.—R. McCaughey.

Not offered regularly. Offered in 1981-82.

4 points.

M 2:10-4:00.

W 1110y. Main Currents in American History since 1877.

H. Graff.

3 points.

Tu Th 5:40-6:30 plus a third hour to be arranged.

69x. War and Reform in Industrial America: 1898-1940.

Emergence of urban, industrial America and subsequent changes in attitudes, social order, and foreign policy. Examination of corporate giantism, mass immigration urban ghettos, labor unions, and reform movements, and the impact of war and depression, as well as the political responses to these developments.—Staff.

Hathaway

3 points.

Tu Th 10:35-11:50.

60x. The United States and World Affairs: 1898 to the Present.

Examination of U.S. foreign policy since the Spanish-American War, focusing on major issues, personalities and processes as the

country moved from isolation to involvement in world affairs. Significance of ideology, bureaucracy, technology, and economic interest in formulation of policy. Role of executive branch, Congress, the military and civilian pressure groups. Means used to achieve foreign policy goals—diplomatic, economic, and military—and alternatives proposed by contemporaries.—Staff.

3 points.

Tu Th 2:40-3:55.

Hathaway

70y. Expanding America: 1941 to the Present.

Economic, political, and military growth at home and abroad; emergence of the United States as active world power during World War II; Cold War, and Korean and Vietnam conflicts; development of affluent society, multi-national associations, and military-industrial complex; continuation of the New Deal and challenges for the extension of political and economic equality and protection of the environment.—Staff.

3 points.

Tu Th 10:35-11:50.

W 3641x. American Social History from 1870 to the Present.

D. Rothman.

3 points.

M W 1:10-2:25.

W 3133x, W 3134y. United States History in the 20th Century.

W. Metzger.

3 points.

Tu Th 10:35-11:50.

History-Urban Studies W 4674x. American Urban History.

K. Jackson.

3 points.

Tu Th 1:10-2:25.

W 4712y. History of the City of New York.

K. Jackson.

3 points.

Tu Th 1:10-2:25.

SEMINARS. UNITED STATES HISTORY

W 3943x. Early American Legal and Constitutional History.

Early American legal and constitutional development in a historical context. Origins of political and legal systems and their social and economic impact.—P. Onuf.

4 points.

Tu 2:10-4:00.

W 3906y. The Federal Constitution.

P. Onuf.

4 points.

Tu 2:10-4:00.

History

hist. 68
The Vietnamese

55y. Jacksonian America.

Nature and significance of the period in light of its historical and historiographical complexities.—C. Williamson.

Offered in alternate years. Not offered in 1981-82.

4 points.

81y. History of Women from Colonial Times to 1890.

Important historical and literary sources, both primary and secondary, examined in relation to political, social and cultural developments. Multiplicity of women's ideas and experiences; attitudes of society towards them.—A. Baxter.

Permission of the instructor required.

Enrollment limited to ca. 25 students.

Offered every two years. Offered in 1982-1983.

4 points.

W 3928y. Indian-White Relations in Colonial U.S.

A. Vaughan.

4 points.

W 11:00-12:50.

W 3923x, W 3924y. The Civil War and Reconstruction, 1840-1877.

Social, economic, political, and military affairs of the United States before, during, and after the Civil War.—J. Shenton.

4 points.

W 4:10-6:00.

W 3944y. American Legal History since the Civil War.

American law and legal institutions since the Civil War; civil rights, the First Amendment, the regulation of business, labor law, and criminal law, cases and secondary sources.—R. Rosenberg.

4 points.

Tu 2:10-4:00.

82y. History of Women in America since 1890.

Important historical and literary sources, primary and secondary, examined in relation to political, social and cultural developments. Multiplicity of women's ideas and experiences, and attitudes of society towards them.—A. Baxter.

Enrollment limited to ca. 25 students.

4 points.

Tu 2:10-4:00.

W 3832x. Military History and Policy.

The period 1860-1945: American Civil War and World Wars I and II.—K. Jackson.

4 points.

Tu 6:10-8:00 p.m.

W 3946y. Patterns of Urban and Suburban Growth.

K. Jackson.

4 points.

Tu 6:10-8:00.

86y. Progressivism in Peace and War: 1901-1920.

Emergence and decline of reform in the United States; origins, aims, and accomplishments of the progressives and their contemporaries; conservatives, trade unionists, and socialists. Impact of World War I upon American society.—Staff.

Enrollment limited to 15 students.

4 points.

Hours to be arranged.

W 3950x. World War II.

Literature of the coming and policies involved in World War II. American involvement and other major belligerents.—J. Shenton.

4 points.

W 6:10-8:00 p.m.

67x. Canada and its People since the British Conquest.

Political, social, economic, and cultural development of Canada from 1760 to the present. Canada's relations to the United States and its role in creating the Commonwealth of Nations and in world affairs.—C. Williamson.

Not offered regularly. Not offered in 1981-82.

4 points.

59x. Canada and the United States.

Conflict and collaboration between the two countries from the American Revolution to modern times.—C. Williamson.

Not offered regularly. Offered in 1981-82.

4 points.

W 2:10-4:00.

61x. American Historiography.

Art and craft of American historians from Puritan to modern times.—C. Williamson.

Enrollment limited to 15 students.

Not offered regularly. Not offered in 1981-82.

4 points.

71y. The Higher Learning in America.

Changing relationship of American colleges and universities to American intellectual life more broadly, from the 17th century to the present.—R. McCaughey.

Enrollment limited to 18 students. Permission of the instructor required.

Offered in alternate years. Not offered in 1981-82.

4 points.

85x. The Professions in America: An Introduction to their History.

Ministerial, legal, and medical professions from the colonial period to the present, and periods of each profession's institutionalization. Selected other professions, e.g., the military, letters also considered. Comparisons with the emergence of these professions elsewhere; comparisons of the role women have played.—R. McCaughey. *Courses 51, 52 recommended. Permission of the instructor required.*

Enrollment limited to 18 students.

4 points.

M 2:10-4:00.

87x. The Public Calling in America: 1607-1975.

American politics as a vocation, from Jamestown to Watergate. Occupational aspects of elective and appointive office-holding; changes in the perception of public service.—

R. McCaughey.

Courses 51, 52 recommended. Permission of the instructor required.

Not offered in 1981-82.

4 points.

W 3878x. Black Radicals and Radicalism in the 20th Century.

H. Lynch.

4 points.

Tu 4:10-6:00.

W 3978x. Role of Scandal in America.

D. Rothman.

4 points.

M 4:10-6:00.

W 3903x, W 3904y. The Presidency.

Readings and research aimed at the development of skill in historical writing. The theme for the year is chosen by consultation with members of the class.—H. Graff.

4 points.

Tu 9:00-10:50.

W 3909x. Topics in Jewish Immigration.

Historical background and socio-economic, political, and cultural problems of the mass migrations. Responses of Jewish communities of England, France, Germany, and the United States to the arrival of Eastern European immigrants.—P. Hyman.

4 points.

Th 2:10-4:00.

W 3973x. American Society 1940-1980.

R. Rosenberg.

4 points.

Tu 2:10-4:00.

LECTURES. LATIN AMERICAN AND NON-WESTERN HISTORY

W 4422x. The History of Islamic Society: From Muhammad to the Mongolian Invasion.

R. Bulliet.

3 points.

Tu Th 4:10-5:25.

W 4430x. Islamic Renewal and Revolutionary Move in the Middle East, Asia and Africa, 18th to 20th Centuries.

W. Roff.

3 points.

Tu Th 4:10-5:25.

W 4537x. Messianic Movements and Ideas in Jewish History, I: From Ancient Israel to Expulsion from Spain.

Y. Yerushalmi.

3 points.

Tu Th 10:35-11:50.

W 4538y. Messianic Movements and Ideas in Jewish History, II: From Spanish Expulsion to Modern Times.

Y. Yerushalmi.

3 points.

Tu Th 10:35-11:50.

W 4779x, W 4780y. History of Latin American Civilization.

x: K. Maxwell; y: H. Klein.

3 points.

x: M W 6:10-7:25.

y: Tu Th 2:40-3:55.

W 4825x, W 4826y. Development of Modern India and Pakistan.

A. Embree.

3 points.

Tu Th 10:35-11:50.

SEMINARS. LATIN AMERICAN AND NON-WESTERN HISTORY

W 3948y. A History of the Caribbean in the 20th Century.

Main political, economic, and social currents in the English-, French- and Spanish-speaking islands to the present.—H. Lynch.

4 points.

Tu 4:10-6:00.

W 3986y. Latin American History.

K. Maxwell.

4 points.

W 6:10-8:00.

W 3992y. Women in African Society since 1870.

Changing conditions of women in urban and rural societies, their work, family lives, leadership roles, and modes of protest.—M. Wright.

4 points.

Th 2:10-4:00.

History

SEMINARS. SENIOR RESEARCH

91x-92y. Senior Research Seminar in European History.

Students conduct individual research, in consultation with the instructor, on subjects in European thought and society. Results of each project in seminar in the form of the Senior Essay.—Instructor to be announced.

Open to senior majors; others by written permission of the instructor.

4 points.

W 4:10-6:00.

2 sections
Tu-C-7uL
long

93x-94y. Senior Research Seminar in American History.

Individual research in diverse aspects of American history and presentation of results in seminar in the form of the Senior Essay.—C. Williamson.

Open to senior majors; others by written permission of the instructor.

4 points.

Tu 2:10-4:00.

99x, 99y. Independent Research.

Staff.

4 points.

Hours to be arranged.

Full descriptions of the following courses of interest to students in history can be found under the heading of the department or interdisciplinary program in which the course is offered.

American Studies 1x, 2y. Seminar on American Culture and National Character.

East Asian V 3310y. Rebellion and Revolution in Modern China.

Medieval and Renaissance Studies 80x. Myth and History: Women, Family and Society in the High Middle Ages.

Religion V 3406y. Medieval Ecclesiastical History, 300-1450.

Urban Studies 45x. Junior Colloquium on Urban Studies.

Studies in the Humanities

Offices: 314 and 321 Milbank Hall

Telephone: 280-5417

Studies in the Humanities is coordinated by a Committee from various departments in the Humanities:

Professor of French

Serge Gavronsky (Co-chairman)

Professor of English

Remington Patterson

Professor of Italian

Maristella Lorch

Professor of Oriental Studies

Barbara Stoler Miller¹ (Co-chairman)

Professor of Philosophy

Mary Mothersill

Professor of Religion

Elaine Pagels

Professor of Russian

Richard G. Gustafson

¹Absent on leave, 1981-82

The offerings in Studies in the Humanities are designed to permit students to broaden their knowledge of humanistic traditions while complementing and enriching the specialization inherent in a major program. Readings in the Humanities courses, as well as Humanities C 1001, C 1002, may be used to fulfill distribution requirements.

Students may neither major nor minor in Studies in the Humanities.

COURSES OF INSTRUCTION

V 3003x-V 3004y. Readings in European and American Literature and Philosophy of the Nineteenth and Twentieth Centuries.

Disintegration of traditional canons in ethics and aesthetics and the attempt to reestablish values in a world where their justification has become increasingly individual or relative. Works by Hegel, Kleist, Marx, Baudelaire, Kierkegaard, Flaubert, Feuerbach, Tolstoy, Dostoevsky, and Nietzsche read in the first semester, and in the second, by James, Mann, Proust, Joyce, Yeats, Eliot, Woolf, Faulkner, Kafka, Sartre, Robbe-Grillet and García Márquez.—x: M. Kurrik; y: K.-L. Selig

Prerequisite: A grade of B or better in Humanities C 1001-C 1002 or permission of the instructor.

3 points.

M W F 1:10.

98y. Seminar: Acts of Interpretations.

Theoretical, literary, and filmic sources ranging from the Ancient Greeks to the present. Texts studied in the light of the transcriptive process, the passage from one medium to another, from

one perspective to another, from one language to another. Sources include Sophocles, Aesop, Sir Walter Scott, Rimbaud, Poe, Conrad, Buñuel, Hitchcock, Max Ernst, Lukacs, Freud, Barthes, Jameson, and Lacan.—S. Gavronsky.

Enrollment by permission of the instructor.

4 points.

W 4:10-6:00.

The following courses represent a selection of departmental offerings that focus on the complexways in which humanistic activity involves translations of ideas, emotions, and forms across barriers of time, space, and language.

Anthropology V 3044y. Symbolism.

Ordering of experience through symbols in various cultures. Symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas, Victor Turner, and others.—Instructor to be announced.

3 points.

M W F 11:00.

Studies in the Humanities

French 48y. Introduction to Literary Semiotics. Introduction to the major theoretical works of Barthes, Lacan, and Kristeva. Readings of selected literary works in light of these theories.—A. Boyman.

Prerequisite: Satisfaction of the language requirement in French.

3 points.

Tu Th 2:40-3:55.

Italian V 3469y. Renaissance Humanism: Its Sources, Forms and Legacy.

Essential aspects of the humanistic tradition.—M. Lorch, G. Savarese, A. Greco.

Prerequisite: One course in either Renaissance history, philosophy, religion, literature or art. Reading knowledge of Latin recommended but not required.

Permission of the instructor required.

Offered in alternate years. Offered in 1981-1982.

3 points.

Hours to be arranged.

Linguistics V 3410y. The Science of Linguistics and the Art of Translation.

Linguistic patterns and the application of linguistic techniques in both process of translation and the comparison of original and translated version of a text. Texts include literary, Biblical, and journalistic material in bi- or multi-lingual versions, and students will use materials in languages familiar to them for analysis and translation.—J. Malone.

Prerequisite: Course V 1101.

Enrollment limited to 25 students. Advance sign-up required.

Offered in rotation with V 3412 and V 3414.

Offered in 1981-82.

3 points.

Tu Th 9:10-10:25.

Oriental Humanities V 3399x, V 3400y.

Colloquium.

Major works of Middle Eastern, Indian, Chinese and Japanese origins. V 3399x: Koran, Sufi poetry, *Upanishads*, Buddhist sutras, *Bhagavad Gita*; V 3400y: *Analects*, *Tao-te Ching*, *Dream of the Red Chamber*, *Tale of Genji*, and Chinese and Japanese poetry.—J. Meskill and S. Rittenburg.

Prerequisite: Two courses from among literature, philosophy, religion and Humanities, or permission of the instructor.

4 points.

W 4:10-6:00.

Philosophy 64x. Wittgenstein and His Influence.

Not offered in 1981-82.

3 points.

Classical Literature 32x. Classical Myth.

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon content and treatment of myth in classical authors (Homer, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid).—Instructor to be announced.

3 points.

M W F 11:00.

Classical Literature V 3123y. Greek Drama and Its Influence.

Evolution of various types of tragedy and comedy from the 5th century B.C. in Athens to the 1st century A.D. in Rome; relation of these forms to later European dramatic forms; theories of comedy and tragedy including those of Aristotle; the production of plays.—H. Foley.

3 points.

M W F 11:00.

Italian

Office: 206 Milbank Hall

Telephone: 280-5418, 5417

Professor

Maristella de Panizza Lorch (Chairman)

Visiting Assistant Professor

Riccardo Bruscagli

Guest Lecturers

Ernesto Grassi (University of Munich), Aulo Greco (University of Rome), Gennaro Savarese (University of Rome), A.Rabil

Other officers of the University offering courses in Italian:

Professors

John C. Nelson¹, Olga Ragusa, Luciano Rebay

¹Absent on leave, Spring Term

The courses in the Italian Department are designed to develop proficiency in language skills and to present the literary and cultural traditions of Italy.

All students who intend to satisfy the foreign language requirement in Italian must take a placement examination before registration. This examination tests the student's knowledge of grammar, her ability to comprehend written and spoken Italian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement.

An important resource for the department is the Casa Italiana with the Paterno Library. The Italian Cultural Club offers social events and films. Two lecture series are funded by the Ungaretti Memorial Fund and Da Ponte Fund.

The department offers a summer school in Florence using the facilities of Syracuse University.

Graduate courses are open to qualified students upon consultation with the chairman.

Italian Studies

The program aims to encourage the interest of students in contemporary Europe by focusing on Italy, both for its own sake and as a kind of test-case for the study of a rapidly changing European society. For details on the program, see page 147, under Foreign Area Studies.

REQUIREMENTS FOR THE MAJOR

A major in Italian should plan her program of study with the chairman of the department as early as possible. The following courses are required unless advanced standing is attained by departmental achievement test or by the Advanced Placement examination.

Italian V1101-V1102	<i>Elementary Full-Year Course</i>
Italian V1201-V1202	<i>Intermediate Course</i>
or	
Italian V1301-V1302	<i>Comprehensive Elementary and Intermediate Course (with the permission of the instructor)</i>

At least twelve courses are required for the major:

Italian V3333-V3334	<i>Introduction to Italian Literature</i>
Italian V3335-V3336	<i>Italian Written and Oral Style</i>
Italian V3993-V3994	<i>Seminar in Italian Literature</i>

and a minimum of 8 courses in Italian numbered above V1302.

Italian

REQUIREMENTS FOR THE MINOR

A minimum of five courses are required for the minor:

V3333-V3334, V3335-V3336, and V3993-V3994 and 3 courses in Italian numbered above V1302.

COURSES OF INSTRUCTION

V 1101x-V 1102y. Elementary Full-Year Course.

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for Course V 1101 until Course V 1102 has been completed.—Staff.

Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period.

Work in the language laboratory for one hour per week is optional.

4 points.

Sections I, II M Tu W Th 9:00.

Sections III, IV, V M Tu W Th 12:00.

V 1201x-V 1202y. Intermediate Course.

Review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation.—Staff.

Prerequisite: Course V 1101-V 1102 or the equivalent.

4 points.

Section I M Tu W Th 9:00.

Sections II, III M Tu W Th 12:00.

V 1301x-V 1302y. Comprehensive Elementary and Intermediate Course.

For linguistically gifted students who wish to acquire by intensive study the reading skill necessary to interpret Italian literary texts.—Staff.

Permission of the chairman required.

4 points.

Section I M W F 11:00-12:15.

Section II M W F 4:10-5:25.

V 3335x-V 3336y. Italian Written and Oral Style.

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review.—R. Bruscagli.

Prerequisite: Course V 1201-V 1202 or the equivalent.

3 points.

Tu Th 4:10-5:25.

LITERATURE COURSES IN ITALIAN

For nonmajors, the literature courses listed below will count toward the distribution requirement. All courses are conducted in Italian.

V 3333x-V 3334y. Introduction to Italian Literature.

Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present; the basic course in Italian literature. L. Rebay and M. Lorch.

Prerequisite: Course V 1201-V 1202 or the equivalent.

3 points.

M W 2:40-3:55.

V 3449x-V 3450y. Modern Italian Literature.

Nineteenth- and twentieth-century prose and poetry.—L. Rebay.

Prerequisite: Course V 1201-V 1202 or the equivalent.

Not offered regularly. Not offered in 1981-82.

3 points.

V 3468y. Italian Poetry from the Scuola Siciliana to the Dolce Stil Nuovo.

Development of Italian poetry from its origins to the early part of the 14th century; Guinizelli, Cavalcanti, and Dante; readings, in-depth textual analysis, and class discussions.—L. Rebay.

Prerequisite: Course V 1201-V 1202 or the equivalent.

Not offered regularly. Not offered in 1981-82.

3 points.

V 3891y. Dante, La Divina Commedia.

The Divine Comedy, focusing on textual analysis and the appreciation of Dante's masterpiece as poetic text. Readings and lectures in Italian; class discussions and written assignments in either Italian or English.—L. Rebay.

Prerequisite: Two years of Italian or the equivalent.

Offered in alternate years. Offered in 1981-1982.

3 points.

M W 4:10-5:25.

V 3196y. Petrarch and Boccaccio.

Filostrato, Fiammetta, The Decameron, and selections from other works by Boccaccio. Selections from Petrarch's *Canzoniere* and Prose writings. Origins of humanism and interrelations between Dante, Boccaccio, Petrarch.—M. Lorch.

Offered in alternate years. Not offered in 1981-82.
3 points.

V 3221y. Machiavelli, Castiglione, Ariosto, Tasso.

Machiavelli's *Prince* and *Mandragola*; Castiglione's *Book of the Courtier*; Ariosto's *Orlando Furioso* (selections); and Tasso's *Aminta* and *Gerusalemme Liberata* (selections).—

R. Bruscagli.

Offered every three years. Offered in 1981-82.
3 points.

Tu Th 2:40-3:55.

V 3993x-V 3994y. Seminar in Italian Literature.
Guidance in research and writing of a critical essay.—Staff

Required of majors. Open to other qualified students with permission of the chairman.

4 points.

Hours to be arranged.

COURSES GIVEN IN ENGLISH

Majors are required to attend an additional seminar hour conducted in Italian in those courses so indicated below.

History-Italian V 3197x. Dante's World.

Historical background of Dante's political, social and ethical thought and literary analysis of its poetical rendering; major theological themes in Medieval thought as a background to and influence upon the *Divine Comedy*; development of visual arts and ideas especially in the painting of Giotto.—

M. Lorch, S. Wemple.

Not offered in 1981-82.

3 points.

V 3223x. Florentine Writers from Dante to Michelangelo.

Interrelations between Dante, Petrarch, and Boccaccio; Lorenzo de Medici and his circle; Machiavelli and Guicciardini; Michelangelo and Cellini.—J. Nelson.

3 points.

Tu 2:10-4:00.

Third Hour: Th 2:10-3:00 for students with a knowledge of Italian, Th 3:10-4:00 for students without a knowledge of Italian.

V 3469x. Renaissance Humanism: Its Sources, Forms and Legacy.

Essential aspects of the humanistic tradition.—M. Lorch with A. Rabil, E. Grassi, G. Savarese and A. Greco.

Prerequisite: One course in either Renaissance history, philosophy, religion, literature, or art. Reading knowledge of Latin recommended but not required.

Permission of the instructor required.

Offered in alternate years. Offered in 1981-1982.

3 points.

Tu 4:10-6:00. Third hour to be arranged.

V 3465x-V 3466y. Italian Civilization and Culture.

Major developments and trends in Italian history, philosophy, literature, and the arts. Autumn: from the Middle Ages to the Baroque. Spring: from the Enlightenment to the present, with special emphasis on opera and film.

Offered in alternate years. Not offered in 1981-82.

3 points.

V 3642y. Studies in Contemporary Italian Arts: Italian Film.

Historical, social, and stylistic analysis within the context of neo-realism—its antecedents and influence on contemporary cinema. Development of the Italian film industry vis-a-vis politics and society. Films by De Sica, Rossellini, Germi, Castellani, Fellini, as well as historical and contemporary works will be screened.—P. D'Acierno.

Fee of \$15.00.

Not offered in 1981-82.

3 points.

English-Italian C 3358y. Artistic Theory in the Renaissance.

Selected texts (in translation) on artistic theory—Alberti, Vassari, Leonardo, among others—and consideration of their importance to the history of art and literary criticism, with attention to the critical terminology used.—K. L. Selig.

3 points.

Tu Th 1:10-2:25.

Linguistics

Office: 412 Milbank Hall

Telephone: 280-5417

Professor

Joseph L. Malone (Chairman)

Other officers of the University offering courses listed below:

Professors

Robert Austerlitz, William Diver

Assistant Professors

Samuel Robert Ramsey (East Asian Languages and Culture), Hanni Woodbury (Anthropology), David M. Yerkes (English-Comparative Literature)

The study of linguistics develops understanding of the nature of the language. The major is designed to provide the student with a broad appreciation of the fundamental problems of language analysis, some training in the techniques of linguistics research, as well as insight into the interrelations of linguistics with the other social and communication sciences, the humanities, and philosophy and mathematics.

REQUIREMENTS FOR THE MAJOR

The major consists of eight courses:

Linguistics V 1101	<i>Introduction to Linguistics</i>
Linguistics V 3203	<i>Synchronic Linguistics</i>
Linguistics V 3206	<i>Historical Linguistics</i>
Linguistics V 3901	<i>Seminar in Linguistics</i>

one 3000-level course and

three courses in linguistics and/or post-intermediate language.

REQUIREMENTS FOR THE MINOR

The student minoring in Linguistics must take five courses in the department, including V 1101.

COURSES OF INSTRUCTION

V 1101x. Introduction to Linguistics.

Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis.—Staff.

Enrollment limited to ca. 100 students per section. Advance sign-up required.

3 points.

x: Section I Tu Th 9:10-10:25.

Section II Tu Th 6:10-7:25.

y: Section I Tu Th 2:00-3:15

Section II Tu Th 6:10-7:25.

V 3203x. Synchronic Linguistics.

Varied approaches to problems in synchronic linguistics, selected to emphasize critical points in linguistic theory.—J. Malone.

Prerequisite: Course V 1101.

Enrollment limited to 25 students, majors preferred. Advance sign-up required.

3 points.

Tu Th 10:35-11:50.

V 3206y. Historical Linguistics.

Principles of historical and comparative linguistics; the role of philology.—D. Yerkes.

Prerequisite: Course V 1101.

Enrollment limited to 25 students, majors preferred.

3 points.

M W 1:10-2:25.

V 3301x. The Structure of a Language.

Illustration of principles of linguistic theory and analysis by application to the structure of a particular language. Emphasis on the relation between diachrony and synchrony.—S. R. Ramsey.

Prerequisite: Course V 1101 or permission of the instructor.

Not offered regularly. Offered in 1981-82.

3 points.

M W 11:00-12:15.

V 3303x. Linguistic Analysis.

Examination of a linguistic problem drawn from current research of the instructor.

Prerequisite: Course V 1101 or permission of the instructor.

Not offered in 1981-82.

3 points.

V 3408x. Language Acquisition.

Survey of the emergence and development of vocabulary, syntax, and phonology in children, with special reference to the role of linguistic theory in accounting for the data. Comparison of child language acquisition with the acquisition of a second language by adults.

Prerequisite: Course V 1101 or permission of the instructor.

Not offered in 1981-82.

3 points.

V 3410y. The Science of Linguistics and the Art of Translation.

Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, Biblical, and journalistic material in bi- or multilingual versions, and students will use materials in languages familiar to them for analysis and translation.—J. Malone.

Prerequisite: Course V 1101.

Enrollment limited to 25 students. Advance sign-up required.

Offered in rotation with V 3412 and V 3414.

Offered in 1981-82.

3 points.

Tu Th 9:10-10:25.

V 3412y. Linguistics and the Translation of Poetic Language.

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages, some chosen by the instructor and others by the students.—J. Malone.

Prerequisite: Course V 1101.

Enrollment is limited to 25 students. Advance sign-up required.

Offered in rotation with V 3410 and V 3414.

Not offered in 1981-82.

3 points.

V 3414y. Linguistics and the Structure of Texts.

Application of linguistics techniques for elucidation of meaning and structure in various types of texts, especially poetry and prose. Modern techniques and traditional methods. Texts used for illustration and analysis will be in various languages.—J. Malone.

Prerequisite: Course V 1101.

Enrollment is limited to 25 students. Advance sign-up required.

Offered in rotation with V 3410 and V 3412.

Not offered in 1981-82.

3 points.

V 3413x. Language Typology and Universals.

Survey of the ways in which linguists classify languages. Investigation of language universals through cross-linguistic studies. Influences of such studies on linguistic theory.

Prerequisite: Course V 1101.

Not offered regularly. Not offered in 1981-82.

3 points.

V 3415y. Introduction to Semantics.

Methods and descriptive techniques of linguists in the study of meaning. Word meaning and lexical decomposition, semantic anomaly, case roles, speech act theory, presupposition, and pragmatics.

Prerequisite: Course V 1101 or permission of the instructor.

Not offered in 1981-82.

3 points.

V 3810y. The Grammar of the Classical Languages.

Comparison of two approaches to the grammar of classical languages: (1) the traditional "grammar of structure," which results in a view of language as largely rule-governed; (2) a "a grammar of communication," which views the morphology as constantly contributing to the communication. Role of grammar in literary interpretation; adequacy of the traditional grammar as an empirical basis for the philosophy of language and for other modern investigations.—W. Diver.

Knowledge of Greek and Latin is not required.

Not offered in 1981-82.

3 points.

V 3901y. Seminar in Linguistics.

Supervised research in the student's area of specialization, preparation of a research paper. J. Malone.

Limited to senior majors.

3 points.

W 9:00-10:50.

W 4204y. Introduction to Phonology.

Basic concepts and issues in phonological theory; development of the phonemic and morphophonemic levels of representation.—J. Malone.

Prerequisite: Course W 4201 or permission of the instructor.

Offered in alternate years. Offered in 1981-82.

3 points.

Tu Th 10:35-11:50.

W 4500x. Generative Syntax.

Principles and analytic techniques of generative syntax; formal and substantive aspects of transformations, base, lexicon, and semantic interpretation; generative syntax and generative semantics.—Instructor to be announced.

Prerequisite: Course V 1101.

3 points.

Tu Th 1:10-2:25.

W 4502y. Generative Phonology.

Principles and analytic techniques of generative phonology; mutual relations of underlying representation and phonetic interpretations; formal and substantive aspects of phonological rules and of phonotactic conditions.—

J. Malone.

Prerequisite: Course W 4201 or permission of the instructor.

Not offered regularly. Not offered in 1981-82.

3 points.

W 4602y. Generative Issues in Semantics.

Current theoretical issues in semantics; structure of the lexicon, presupposition, performatives, and "natural" logic.—Instructor to be announced.

Prerequisite: Course W 4500.

Not offered regularly. Offered in 1981-82.

3 points.

Times to be announced.

OTHER LINGUISTICS COURSES

For full descriptions, please consult the Columbia College Bulletin.

Literature G 4006x. Linguistics in the Service of Literature.

R. Austerlitz.

3 points.

M W 11:00-12:00.

Uralic W 4101y. Introduction to the Study of Uralic Languages.

R. Austerlitz.

3 points.

Tu 12:00-2:00, plus additional hour for undergraduates to be arranged.

G 4805-G4806y. General Linguistics.

W. Diver.

3 points.

Th 2:10-4:00.

Anthropology V 3033y. Socialinguistics.

M. Woodbury.

3 points,

M W 1:10-2:25.

Anthropology V 3034x. Ethnolinguistics.

M. Woodbury.

3 points.

M W 1:10-2:25.

Mathematical Statistics

Office: 618 Mathematics Building

Telephone: 280-3653

Barnard students wishing to major in Mathematical Statistics should consult the Columbia College Bulletin under the Department of Mathematical Statistics. Special arrangements for the major can be made by petition to the Committee on Programs and Academic Standing.



Mathematics

Office: 514 Mathematics Building

Telephone: 280-4341

Professor

John S. Birman (Chairman)

Assistant Professor

John Harer

Other officers of the University offering courses in Mathematics:

Professors

Hyman Bass, Lipman Bers, Samuel Eilenberg (University Professor), Patrick X. Gallagher, Herve M. Jacquet¹, Ellis R. Kolchin, Masatake Kuranishi, Boris G. Moishezon, John W. Morgan.

Associate Professors

Avner Ash, Henry Pinkham, Troëls Jorgensen

Visiting Associate Professor

Andrei M. Todorov

Assistant Professors

Constantine Callias, Michael Davis, Eugene Gutkin, Howard Hiller, Ian Morrison, Steven Plotnick, Lee Rudolph, Lance Smith, Karen Vogtmann

J.F. Ritt Assistant Professors

Don Blasius, Harold Boas, Doris Fischer-Colbrie, Michael P. Fourman, Chong Kyu Han, Duong H. Phong

¹Absent on leave, Fall Term

The Mathematics Department offers a wide range of courses, which fall into four groups: non-credit courses for students who lack a firm grasp of basics in mathematics, service courses for students who need to learn the tools of mathematics for applications to other areas, courses in the majors' program in pure mathematics (including a regular track and an honors track), and courses in the majors' program in applied mathematics. Courses in mathematical statistics are also offered, but a student must petition to major in that branch of the field (see page 195).

Students interested in Computing Science should consult the program listing of that department, page 115.

General Information

The non-credit offerings are V 0070, *Mathematics for Elementary Science* and V 0077, *Pre-Calculus*.

The systematic study of college mathematics begins with Calculus, which is taught at a number of levels. In the mainstream sequence (Calculus I-IV), there are three levels, A, B, and C. The A-sequence is a standard course in differential and integral calculus, intended primarily for students who need calculus for its applications. The B-sequence covers substantially the same material as A, but places more stress on theoretical foundations and moves at a more rapid pace. The C-sequence is a fast-paced honors course which stresses theory and in addition demands creative imagination and unusual ability to think abstractly. Students who complete the sequence IC-IVC are often able to bypass Mathematics W 4061-W 4062, *Introduction to Modern Analysis*, substituting G 4101-G4102. Mathematics majors are required to take the B- or C-levels. A fourth sequence on the first year level, IE-IIE, is designed for prospective economics majors.

For non-mathematics majors, an alternative to Calculus IV in the second year is Mathematics V 1220, *Algebra for Applications*. At the opposite end of the spectrum is V 1100, *Brief Calculus*, a one-term survey of the contents of IA-IIA.

Mathematics

Placement in the proper term (I, II, III) and level (A, B, C) is guided by the following criteria. Students who have studied calculus in high school and have passed the Advanced Placement Test (AB level) with a grade of 4 or 5 are awarded one course credit and may begin with Calculus IIA or Calculus IIB, or with Calculus IC if they have passed the qualifying examination for that course. Those who have received a grade of 3 will be awarded one course credit only if they take and pass Calculus IIA or IIB. Students who have studied calculus in high school and have passed the Advanced Placement Test (BC level) with a grade of 4 or 5 are awarded two courses credit and may begin with Calculus IIIA or Calculus IIIB (Section II, for freshmen only), or with Calculus IC if they have passed the qualifying examination for that course. Those who have received a grade of 3 will be awarded two courses credit only if they take and pass Calculus IIIA or IIIB, and will be awarded one course credit if, instead, they take and pass Calculus IIA or IIB.

CEEB-Placement exam policies: Students who receive scores under 550 in the CEEB Mathematics Achievement Test, Level I or II, are required to take the departmental placement exam before they may be admitted to any of the department's offerings. Students who do not pass this examination must take non-credit V 0077 in order to be allowed to register for Calculus. The placement exam is administered during the Autumn and Spring registration period.

Entrance to the Calculus IC-IVC sequence is by a placement examination, administered during Freshman week, or by recommendation of the instructor during the first few weeks of the B- or A-sequence courses. Students who have received scores of over 700 in the CEEB exams are encouraged to try this examination.

Students who have special placement problems should go to Room 609 Mathematics to arrange an appointment with a faculty member or the Chairman, either during Freshman week or during the semester.

The Help Room on the 6th floor of the Mathematics Building is open during the day, Monday through Friday, for students seeking individual help and counseling from the instructors and teaching assistants in the A-sequence; also, videotape equipment is available for help in solving A-sequence problem assignments.

REQUIREMENTS FOR THE MAJOR

In the second half of the sophomore year or earlier, prospective majors should register with the departmental assistant (602 Mathematics) to be assigned to a departmental adviser. The major programs in both pure and applied mathematics are appropriate for students who plan to continue their training in graduate school.

Fourteen courses are required for the major in mathematics, distributed as follows according to two tracks:

Pure Mathematics

V 1103-V 1104, V 1203-V-1204
or
V 1107-V-1108, V 1207-V 1208
W 4061-W 4062
V 3040-V 3041
V 3951 or V 3952

Calculus IB, IIB, IIIB and IVB
Calculus IC, IIC, IIIC and IVC
Introduction to Modern Analysis
Introduction to Modern Algebra
Undergraduate Seminars in Mathematics

and five courses in any combination of mathematics and cognate courses, such as physics, chemistry, astronomy, computing science, etc., to be approved by the adviser.

Mathematics

Applied Mathematics

V 1103-V 1104, V 1203-V 1204	<i>Calculus IB, IIB, IIIB, and IVB</i>
V 3029-V3030	<i>Linear Algebra and Differential Equations</i>
or	
V 3027	<i>Ordinary Differential Equations</i>
and	
V 3202	<i>Linear Algebra</i>
V 3028	<i>Partial Differential Equations</i>
or	
Eng-Math E 4200	<i>Partial Differential Equations</i>
V 3007	<i>Complex Variables</i>
W 4061	<i>Introduction to Modern Analysis</i>
Math Stat G 4105	<i>Probability</i>
Computing Science G 4401	<i>Numerical Analysis and Digital Computers I</i>
Eng-Math E 4901-E 4902	<i>Seminar in Applied Mathematics (one point each)</i>
Eng-Math E 4903-E 4904	<i>Seminar in Applied Mathematics (4 points each)</i>

REQUIREMENTS FOR THE MINOR

Seven courses are required for the minor, consisting of 4 courses in the calculus sequence and 3 other courses from the departmental offerings, subject to the approval of the chairman.

COURSES OF INSTRUCTION

V 0070x, V 0070y. Mathematics for Elementary Science.

For students who do not have a firm grasp of high school mathematics and will need some elementary mathematical techniques in later courses or work. Those who plan to study calculus should consider V 0077 (see below). Topics studied: polynomials, algebraic equations, coordinates, lines and circles, exponents and logarithms, trigonometry.—Staff.

Graded on a pass-fail basis.

This course does not carry credit toward the bachelor's degree.

2 points.

Section I M W 7:10-8:00 p.m.

Section II Tu Th 4:10-5:00 p.m.

V 0077x, V 0077y. Pre-Calculus.

For students who wish to study calculus but do not have a firm enough grasp of high school mathematics. Topics studied: functions, composite functions, rates of growth, trigonometry, inverse functions, exponents and logarithms, rates of change.—Staff.

Graded on a pass-fail basis.

This course does not carry credit toward the bachelor's degree.

2 points.

Section I M W 1:10-2:00.

Section II M W 4:10-5:00.

Section III Tu Th 6:10-7:00.

Section IV M W 7:10-8:00 p.m.

V 1001x-V 1002y. Introduction to Basic Concepts of Mathematics.

Terminal course for students not intending to continue the study of mathematics. A glimpse into the world of mathematics and its applications. Although the material is elementary, it is approached from a thoroughly contemporary scientific point of view.—Staff.

Prerequisite: High school mathematics through intermediate algebra.

V 1001 is prerequisite for V 1002.

3 points.

Tu Th 4:10-5:25.

V 1100x. Brief Calculus.

Covers in a single semester the main ideas of differential and integral calculus, necessarily less extensively than V 1101-V 1102 or V 1103-V 1104. Terminal calculus course. Warning: students who take this course and then wish to continue in calculus must first take V 1101 (or V 1103) *without credit*. They will be permitted to register for V 1102 (or V 1104) only upon receiving a passing grade in V 1101 (or V 1103). Students who anticipate further studies in the sciences or mathematically-oriented social sciences are strongly advised to consider V 1101-V 1102 or V 1103-V 1104 rather than V 1100.—Staff.

3 points.

Tu Th 2:40-3:55, plus recitation either M 4:10 or W 12:00.

Mathematics

V 1101x, V 1101y. Calculus IA.

Functions, limits, derivatives; examples; introduction to integrals. Help-Room on the 6th floor of Mathematics Building is open to students seeking individual help and counseling by instructors and teaching assistants during the day, Monday to Friday. Video-tape equipment is also available for problem-solving.—Staff.

3 points.

Section I M W F 10:00.

Section II M W F 11:00.

Section III x: M W 1:10-2:25.

y: M W 4:10-5:25.

Section IV x: M W 6:10-7:25.

y: Tu Th 6:10-7:25.

Recitation: One hour chosen by the student during the first week of classes. Recitations are scheduled approximately 12 times a week in V 1101x and 8 times a week in V 1101y.

V 1102x, V 1102y. Calculus IIA.

Methods of integration; applications of the integral; elementary transcendental functions; Taylor's Theorem; infinite series; power series. Staff.

Prerequisite: Course V 1101 or the equivalent.

3 points.

Section I M W F 10:00.

Section II M W F 11:00.

Section III x: Tu Th 6:10-7:25.

y: M W 1:10-2:25.

Section IV y: M W 6:10-7:25.

Recitation: One hour chosen by the student during the first week of classes from a fixed schedule.

V 1103x. Calculus IB.

Same topics as Calculus IA, with greater emphasis on underlying theory.—Staff.

3 points.

M W F 11:00.

Recitation: Tu or Th 8:00 or 12:00.

V 1104x, V 1104y. Calculus IIB.

Same topics as Calculus IIA, with greater emphasis on underlying theory.—Staff.

Prerequisite: Course V 1103 or the equivalent.

3 points.

M W F 11:00.

Recitation: Tu or Th 8:00 or 12:00.

V 1107x, V 1108y. Calculus IC and IIC.

Same materials as Course IA, IIA, and IB, IIB, but the terminology and style are thoroughly modern.—Staff.

Intended for students who have facility with discussion on an abstract level, or who appear likely to develop such facility early.

Entrance by examination or by permission of the instructor.

3 points.

M W F 11:00.

V 1111x, V 1112y. Calculus for Economics. (Calculus IE—IIE.)

The level of this course is the same as that of Mathematics V 1101, V 1102, but the syllabus is modified to meet the special needs of economics students. x: Derivatives, transcendental functions, curve-sketching, optimization problems in one variable, integrals, integration by substitution and by parts; y: Partial derivatives, notions from linear algebra and the implicit function theorem, optimization problems in several variables, Lagrange multipliers, complex numbers, linear differential and difference equations with constant coefficients.—Staff.

Prerequisite: Same as for V 1101-V 1102.

3 points.

M W F 11:00.

Recitation: Tu 12:00 or Th 8:00.

V 1201x, V 1201y. Calculus IIIA.

Vectors in dimensions 2 and 3; determinants of order 2 and 3; vector valued functions and their derivatives; curves; velocity and acceleration; functions of several variables; partial derivatives; gradients; differentials; surfaces; tangent planes, extrema; double and triple integrals; applications, vector fields; line integrals.—Staff.

Prerequisite: Course V 1102 or the equivalent.

3 points.

Section I x: Tu Th 10:35-11:50.

Section II x: Tu Th 1:10-2:25.

y: Tu Th 6:10-7:25.

Recitation: Ix: M or W 8:00 or 12:00; IIx: Tu 2:40-3:55, or Th 4:10-5:25.

y: Tu 7:40-8:55 p.m. or Th 4:10-5:25.

V 1202x, V 1202y. Calculus IVA.

Vectors in higher dimensions; matrices; determinants; transformations, Jacobians; implicit functions; Lagrange multipliers; change of variables; Taylor formulae in several variables; curves; extrema; vector fields; divergence and curl; surface integrals; complex numbers; Fourier series.—Staff.

Prerequisite: Course V 1201 or the equivalent. 3 points.

x: Tu Th 6:10-7:25.

Section Iy Tu Th 10:35-11:50.

Section Ily Tu Th 1:10-2:25.

Recitation: x: Tu 7:40-8:55 p.m. or Th 4:10-5:25.

Iy: M or W 8:00 or 12:00; Ily: Tu 2:40-3:55, or Th 4:10-5:25.

Mathematics

V 1203x, V 1203y. Calculus IIIB.

Same topics as Course V 1201, with greater emphasis on the underlying theory.—Staff.

Prerequisite: For Sections Ix or y, Course V 1104. For Section IIx (Freshmen only) see statement under "General Information."

3 points.

Section Ix Tu Th 10:35-11:50. L. Bers.

Section IIx M WF 11:00. (Freshmen only) J. Harer.

Section Iy M WF 11:00. R. Staffeldt.

Recitation: Ix: M or W 8:00 or 12:00; IIx (For Freshmen only): Tu or Th 8:00 or 12:00.

Iy: Tu or Th 8:00 or 12:00.

V 1204x, V 1204y. Calculus IVB.

Same topics as Course V 1202, with greater emphasis on underlying theory.—Staff.

Prerequisite: Course V 1203.

3 points.

Section Ix M WF 11:00. S. Wolpert.

Section Iy Tu Th 10:35-11:50. L. Bers.

Section IIy M WF 11:00 (Freshmen only). J. Harer.

Recitation: Ix: Tu or Th 8:00 or 12:00.

Iy: M or W 8:00 or 12:00; IIy: (For Freshmen only): Tu or Th 8:00 or 12:00.

V 1207x, V 1208y. Calculus IIIC and IVC.

Material of Calculus IIIB, IVB plus additional topics. Terminology and style are thoroughly modern.—Staff.

Prerequisite: Courses V 1107-V 1108. Course V 1207 is the prerequisite for V 1208.

Permission of the instructor is required.

3 points.

Tu Th 10:35-11:50.

V 1220y. Algebra for Applications.

Topics in abstract algebra extensively used in science and engineering; basic notions of set theory; induction; groups, rings, fields; rings of integers and of polynomials; finite abelian groups; finite rings and fields; Boolean algebra; elementary combinatorics; difference equations; notions from graph theory.—Staff.

Prerequisite: One year of calculus.

3 points.

Tu Th 10:35-11:50.

V 2040x. Number Theory.

Congruences, quadratic residues, Gaussian sums; number-theoretic functions; distribution of primes; irrational, algebraic and transcendental numbers.—A. Ash.

Prerequisite: Calculus II.

3 points.

Tu Th 1:10-2:25.

V 3005x, V 3006y. Advanced Calculus for Science Majors.

This course completes the basic calculus sequence and supplies essential groundwork for applications to physics and engineering. Elements of linear algebra; power series; Taylor expansions; chain rule; change of variables in multiple integrals; line and surface integrals; Green's and Stokes' theorem; implicit function theorem; differentiation of series and integrals; orthogonal expansions; Fourier series, Legendre polynomials, Bessel functions; complex analysis; Cauchy-Riemann equations, Cauchy theorem; residue theorem with applications to contour integrations.—D. Phong.

Prerequisite: Calculus IV.

Either term may be taken separately.

3 points.

Tu Th 2:40-3:55.

V 3007y. Complex Variables.

Elementary course in functions of a complex variable; complex numbers, analytic functions, Cauchy-Riemann equations; Cauchy integral theorem, Taylor and Laurent series, poles and essential singularities, conformal mapping.—J. Morgan.

Prerequisite: Calculus IV.

3 points.

M W 1:10-2:25.

V 3010x. Fundamental Concepts of Mathematics.

Groundwork on which almost all modern mathematics rests: sets, mappings, relations, ordered sets, well-ordering, natural numbers, cardinal numbers, ordinal numbers, choice functions, Zorn's lemma, induction, real and complex numbers.—M. Fourman.

Prerequisite: Calculus IV and at least one 3000-level course.

3 points.

M W F 10:00.

V 3027x. Ordinary Differential Equations.

Solutions of ordinary differential equations: linear equations with constant coefficients, series solutions at regular and singular points; boundary value problems; qualitative theory of nonlinear equations; selected applications.—B. Moishezon.

Prerequisite: Calculus IV or the equivalent.

3 points.

Tu Th 6:10-7:25.

V 3028y. Partial Differential Equations.

Introduction to partial differential equations; first-order equations; linear second-order equations; separation of variables, solution by series expansions; boundary value problems.—B. Moishezon.

Mathematics

*Prerequisite: Course V 3027 or the equivalent.
3 points.
Tu Th 6:10-7:25.*

V 3029x-V 3030y. Linear Algebra and Differential Equations.

Integrated course in linear algebra and ordinary differential equations, the latter serving as the major source of motivation for and applications of the former; content of V 3027 and V 3202 with applications to population biology, economics, physics, chemistry, electrical circuits, and manifold theory.—Y. Flicker.

Prerequisite: Calculus II. May be taken concurrently with Calculus III.

This course is intended for students in the mathematical, physical, biological and social sciences.

3 points.

M W 1:10-2:25.

V 3040x, V 3041y. Introduction to Modern Algebra.

Introduction to groups, rings, fields, with examples; polynomials, algebraic number fields, the Galois theory and applications.—C. Callias.

Prerequisite: Calculus IV. Mathematically mature students may, with permission of the instructor, take this course after completing Calculus II or III.

3 points.

Tu Th 1:10-2:25.

W 4061x, W 4062y. Introduction to Modern Analysis.

Real numbers; metric spaces; elements of general topology; continuous functions; implicit function theory; measure and integration; change of variables in integration; Banach spaces and Hilbert spaces; bounded operators; examples and applications, further topics chosen by the instructor.—H. Boas.

Prerequisite: Calculus IV or the equivalent.

3 points.

M W 4:10-5:25.

V 3202x. Linear Algebra.

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, reduction to canonical forms.—Instructor to be announced.

Prerequisite: Calculus II or the equivalent.

Primarily for majors in mathematical statistics, the physical sciences, biology, and the social sciences.

3 points.

M W F 10:00.

V 3375y. Geometric Topology.

Fundamental group; Seifert-Van Kampen theorem, covering spaces, classification of 2-manifolds, simplicial homology.—L. Rudolph.

*Prerequisite: Courses V 3040 and W 4061.
This course is intended primarily for mathematics majors.
3 points.
Tu Th 2:40-3:55.*

V 3386x. Differential Geometry.

Local and global differential geometry of submanifolds of Euclidean 3-space; Frenet formulas for curves; various types of curvatures for curves and surfaces and their relations; Gauss-Bonnet theorem.

Prerequisite: Calculus IV or the equivalent.

3 points.

Tu Th 2:40-3:55.

V 3901x, V 3902y. Supervised Readings in Mathematics.

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors listed on the staff list. Written reports and periodic conferences will be required.—Staff.

Permission of the chairman and of the staff member who agrees to act as sponsor are required. The written permission must be deposited with Ms. Georgiadis, Room 602 Mathematics Building, before registration is completed.

3 points.

Hours to be arranged.

V 3951x, V 3952y. Undergraduate Seminars in Mathematics.

Subject matter announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow.—

x: A. Todorov; y: A. Ash.

*Prerequisite: Two years of calculus and at least one year of additional mathematics courses, and the permission of the department chairman.
3 points.*

Consult 6th floor bulletin board, Mathematics Building, for organizational meeting date and time, during registration period.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.

Medieval and Renaissance Studies

Office: 206 Milbank Hall

Telephone: 280-5418, 5417

This program is supervised by the Committee on Medieval and Renaissance Studies:

Professor of Classics

Lydia Lenaghan¹

Professor of Italian

Maristella Lorch (Chairman)

Professors of English

Ruth Kivette, Anne Prescott

Professor of French

Tatiana Greene

Professor of History

Suzanne Wemple (Adviser)²

Professor of Music

Hubert Doris

Associate in English

Lois Ebin

Associate Professor of Spanish

Marcia Welles

Associate Professor of Art History

Jane Rosenthal

Assistant Professor of Spanish

Helene de Aguilar

Visiting Assistant Professor of Italian

Riccardo Bruscagli

Lecturer in German

Regina Ayre

Guest Lecturers

Ernesto Grassi (University of Munich), A. Rabil

Guest Lecturers

Aulo Greco (University of Rome)

Gennaro Savarese (University of Rome)

¹Absent on leave, 1981-82.

²Absent on leave, Spring Term.

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of the Medieval and Renaissance civilizations, and to gain an awareness of the interdependence of historical and cultural developments.

REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of the disciplines: art history, history, one of the literatures, philosophy, romance philology, music, or religion. A sequence of five courses to be taken in the field of concentration has been developed by the relevant department.

A minimum of twelve courses are required for the major in Medieval and Renaissance Studies, distributed as follows:

Medieval and Renaissance Studies

- 5 courses in the area of concentration;
- 2 history courses;
- 3 Medieval and Renaissance Studies courses;
- 2 electives to be chosen in consultation with the adviser.

Students are required to write a senior essay, either in a Medieval and Renaissance Studies course or in a senior level seminar in the discipline of their concentration.

Language Requirements

Medieval Studies. A reading knowledge of one Romance or Germanic language is required. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Latin 33, *Medieval Literature*.)

Renaissance Studies. A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Mimeographed lists of concentration courses are available from the Program Adviser, 413 Lehman Hall.

REQUIREMENTS FOR THE MINOR

There is no minor in Medieval and Renaissance Studies.

COURSES OF INSTRUCTION

79x, 80y. Myth and History. Advanced Seminar.

x: Women, Family and Society in the High Middle Ages. Exploration through history and fiction of the position of women and the structure of the family in medieval society (1100-1300). y: The Courts. Exploration through history and fiction of the origins and dimensions of the court of Este in Ferrara and the birth and development of Renaissance theatre, chivalric and epic poetry.—x: R. Ayre and S. Wemple; y: R. Bruscagli and M. Lorch.
4 points.

x: *Tu Th 2:30-4:00.*

y: *Tu 1:10-2:50 plus third hour to be arranged.*

81x. Italian Renaissance: Courts and the Theater.

Relation of the textual to the dramatic, musical, choreographic and visual elements and the social nature of the encounter between the public and the actors and performers.—H. Doris and M. Lorch.
Offered every three years. Offered in 1982-83.
3 points.

82y. Iconography and Allegory.

Central forms and procedures of medieval and Renaissance iconography and allegory; movement of signs, symbols and narratives from religion and philosophy into literature.—E. Cousins and B. Ulanov.

Offered every three years. Offered in 1982-83.
3 points.

83x. Medieval Drama: Dramatics and Liturgy. Introductory Seminar.

Change from Biblical narrative to poetic drama, major scenes and imagery, and lateral staging, a medieval method new to modern theater. Literary study of medieval drama and production of sections of a major cycle (*Ludus Coventriæ*). First half-semester: 2 hours text, 1 hour production; second half-semester: 1 hour text, 2 hours production.—K. James and H. Schless.
Enrollment limited to 25 students. Offered every three years. Offered in 1982-83.
3 points.

Medieval and Renaissance Studies

Italian V 3469x. Renaissance Humanism: Its Sources, Forms and Legacy. Advanced Seminar.

Humanistic literature in Europe (1400-1500); forms of humanistic literature, the humanist concern with Christianity as religion, humanism and education, politics and the visual arts.—M. Lorch with A. Rabil, and E. Grassi, A. Greco and G. Savarese.

4 points.

Tu 4:10-6:00 plus third hour to be arranged.

86y. Women in the Middle Ages: Ideals and Reality.

Position of women in the medieval social structure and as reflected in the image of women in literature and art. Women's contributions to art and literature and some common medieval stereotypes examined on the basis of primary evidence, letters, manuals, documents, literary texts, and works of art.—L. Ebin, J. Rosenthal and S. Wemple.

Not offered in 1981-82.

4 points.

90y. Senior Seminar.

Texts central to the continuity and reappraisal of medieval and Renaissance traditions. Readings linked to the student's experience in various fields provide a context for the preparation of a senior thesis.—Members of the Committee.

4 points.

Hours to be arranged.

History-Italian V 3197x. Dante's World.

Introductory Seminar.

M. Lorch and S. Wemple with participation of H. Davis and E. Cousins.

Offered in alternate years. Not offered in 1981-82.

3 points.

Latin 33y. Medieval Literature.

L. Lenaghan

3 points.

Not offered in 1981-82.

Music

Office: 409 Milbank Hall

Telephone: 280-5096

Professors

Patricia Carpenter, Hubert Doris (Chairman)

Assistant Professor

James M. Baker

Associate

Peter Schubert

Other officers of the University offering courses listed below:

Professors

Jack Beeson, Joel Newman¹, Leeman Perkins, Howard Shanet, Edward Lippman

Associate Professor

Fred Lerdhal

Assistant Professors

Nancy Baker, Max Lifchitz, Kay Shelemay, Phillip Schuyler, Richard Taruskin, Mark Zuckerman

Lecturer

Christopher Hatch

¹Absent on leave, Autumn Term

The offerings of the department are designed to encourage the study of music as an art and a craft within the framework of the liberal arts. The courses in the Theory sequence are intended to develop an understanding of the way Western music has developed from the Renaissance to the present. These courses prepare the student practically and analytically for the courses in the History sequence. The History sequence covers the period from the Middle Ages to the mid-twentieth century, emphasizing not only the purely historical development of music, but also its place as an art in society.

The department provides practice rooms at nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall, during registration and the first week of classes by music majors, and by all others during the week following.

Books, scores, and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Music 1-2, *An Introduction to Music*.

Students contemplating a career in performance or composition should consult the announcement for the Program in the Arts, pages

REQUIREMENTS FOR THE MAJOR

The music major is a demanding one, but it is hoped that the student will find time to follow special courses of particular interest from among those presented in the Literature and History section of the departmental offering.

Music

A total of 14 courses is required for the major:

V 2100-V 2101, V 2300-V 2301, V 2303, V 2305	<i>Theory I, II, III, IV, V, and VI</i>
V 3123, V 3124, V 3125, V 3126	<i>History I, II, III, and IV</i>
V 3179-V 3180	<i>Seminar: Historical and Analytical Studies in the Literature of Music</i>
V 3373-V 3374	<i>Orchestration, Conducting, and Score Reading</i>

A student intending to major in music should start with Music V 2100 and V 3123 as early as possible. Course 1-2, though a prerequisite for more advanced literature courses, is not required of music majors, since they cover the same kind of materials in greater depth in the courses already required of them. Applied music (a maximum of two courses) may be counted toward the degree, but is not required.

Students planning to do graduate work in theory or ethnomusicology must know at least two foreign languages, including German and French. Those planning graduate work in historical musicology must know Latin, and German or French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Bulletin of the Graduate School of Arts and Sciences for those courses open to seniors and others with advanced training.

Students planning to major in music will be expected to file with the department certificates stating that they have passed an examination in elementary piano. A student found deficient in piano technique is required to take supplementary piano lessons until an appropriate level of proficiency at the keyboard has been reached, such proficiency to be certified by Mr. Ø stbye no later than the end of the first term of the senior year. As with other applied music activities, these lessons will carry the equivalent of one quarter academic credit per semester.

Majors must have participated for two years in the chorus, orchestra, choir, concert band, collegium musicum, chamber music, or other musical ensembles by the time they are graduated. A senior major is required to prepare a research paper, project or a recital with essay to be planned in consultation with her adviser no later than the beginning of the senior year.

REQUIREMENTS FOR THE MINOR

A minimum of six courses is required for the minor, four terms in the Theory sequence and two terms in the History sequence.

COURSES OF INSTRUCTION

LITERATURE AND HISTORY

1x-2y. An Introduction to Music.

Elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure.—Staff.

*No previous knowledge of music is required.
This course is not designed for students
majoring in music.*

3 points.

Section I M W 1:10-2:25.

Section II Tu Th 10:35-11:50.

Section III M W 11:00-12:15.

V 1004y. Literature of the Pianoforte.

Selected works of piano music from the eighteenth century to the present.—H. Doris.

*Prerequisite: Course 1-2 or the equivalent.
Offered in alternate years. Offered in 1981-1982.*

3 points.

M W 2:25-3:40.

V 1005x. The Opera.

Survey of the development of opera from Monteverdi to the present.—J. Beeson.

Prerequisite: Course 1-2 or the equivalent.

3 points.

M W 1:10-3:00. One hour is a listening hour.

V 1006y. The Symphony.

Survey of symphonic style and structure from 1750 to the present.—N. Baker.

Prerequisite: Course 1-2 or the equivalent.

3 points.

M W 1:10-3:00. One hour is a listening hour.

V 1007x. Music of the World's Peoples: India and Indonesia.

Introduction to musical theories and practices of the world.—R. Schuyler.

Prerequisite: Course 1-2 or the equivalent.

3 points.

Tu Th 1:10-3:00. One hour is a listening hour.

V 1008x. Twentieth-Century Music.

Survey of contemporary music from the late 19th century to the present.—Instructor to be arranged.

Prerequisite: Course 1-2 or the equivalent.

3 points.

V 1015y. American Music.

Survey of music in America from colonial times through the 1950's; the relationship between folk, "entertainment," and art music.—J. Newman.

Prerequisite: Course 1-2 or the equivalent.

Not offered in 1981-82.

3 points.

V 1016y. Introduction to Jazz.

A survey of musical topics arising from the study of jazz in America: 1917-1965.—M. Zuckerman.

Prerequisite: Course 1-2 or equivalent.

3 points.

Tu Th 1:10-3:00.

V 1023y. Bach.

Bach's principal works examined in the light of his stylistic development and musical environment.—J. Newman.

Prerequisite: Courses 1-2 and V 2300-V 2301. Offered in alternate years. Not offered in 1981-82.

3 points.

V 1617x. Electronic Music: Its Evolution and Techniques.

Survey of electronic music from 1948 to 1968: analysis of compositional techniques and their evolution and applications by various groups and individual composers. Technical procedures

employed in creating sound materials.—

Instructor to be announced.

Prerequisite: Course V 2101 or the equivalent and written permission of the instructor.

3 points.

M 3:10-5:00.

V 3021y. Schoenberg.

Music and writings of Arnold Schoenberg in light of his role as conservator and innovator. Representative works, with emphasis on Schoenberg's place within the tradition of classic tonal music and his importance to the music of the twentieth century.—P. Carpenter.

Prerequisite: Courses V 2300-V 2301 or permission of the instructor.

Offered in alternate years. Not offered in 1981-82.

3 points.

V 3042x. Aesthetic Disciplines in Music.

Basic concepts in aesthetics applied to music, resulting problems in describing, explaining, and evaluating music.—P. Carpenter.

Permission of the instructor required.

Not offered regularly. Not offered in 1981-82.

3 points.

V 3123x. History I.

Western music to the early sixteenth century.

Prerequisite or Corequisite: Course V 2100 or the equivalent.

3 points.

Section I Tu Th 3:10-5:00. One hour is a listening hour. L. Perkins.

Section II Tu Th 5:40-7:30. One hour is a listening hour. R. Taruskin.

V 3124y. History II.

Western music from the early sixteenth century to the end of the seventeenth century.

Prerequisite: Course V 3123 or permission of the instructor.

3 points.

Section I Tu Th 3:10-5:00. One hour is a listening hour. L. Perkins.

Section II Tu Th 5:40-7:30. One hour is a listening hour. J. Newman.

V 3125x. History III.

Western music from the end of the seventeenth century to the early nineteenth century.

Prerequisite: Course V 3124 or permission of the instructor.

3 points.

Section I M W 2:10-4:00. One hour is a listening hour. N. Baker.

Section II Tu Th 5:40-7:30. One hour is a listening hour. Instructor to be announced.

Music

V 3126y. History IV.

Western music from the early nineteenth century to the mid-twentieth century.

Prerequisite: Course V 3125 or permission of the instructor.

3 points.

Section I M W 2:10-4:00. One hour is a listening hour. Instructor to be announced.

Section II Tu Th 5:40-7:30. One hour is a listening hour. R. Taruskin.

V 3179x-V 3180y. Seminar. Historical and Analytical Studies in the Literature of Music.

Required seminar for senior majors to supplement and coordinate previous studies.

Prerequisite: Three years of the theory sequence, two years of the history sequence, and Courses V 3373-V 3374, or written permission of the instructor.

3 points.

Section I W 3:10-5:00. H. Doris, P. Carpenter.

Section II Th 3:10-5:00. J. Beeson, P. Carpenter.

THEORY

V 1329x, V 1329y. Musicianship.

Basic elements of music studied with the aim of developing musicianship.—Staff.

Prerequisite: Placement examinations will be given at the first class meeting.

3 points.

Sections I, II, III Tu Th 4:10-5:25.

All students taking the Music Theory sequence (V 2100 through V 2305) must take a placement examination in ear-training, and must satisfy the ear-training requirement either through the placement examination or the completion of the ear-training sequence V 2000 through V 2003. *These courses carry one point each toward the degree.*

V 2000x, V 2000y. Ear-training. Level I.

Intervals, rhythms, and melodic lines, for dictation and sight-singing.—Staff.

Sections I, II Tu Th 9:00.

V 2001x, V 2001y. Ear-training. Level II.

Three- and four-tone chords and simple passages, for dictation and sight-singing.—Staff.

Prerequisite: Course V 2000 or the equivalent.

Sections I, II Tu Th 9:00.

V 2002x, V 2002y. Ear-training. Level III.

Cadences and chord progressions, for dictation and sight-singing.—Staff.

Prerequisite: Course V 2001 or the equivalent.

M W 9:00.

V 2003x, V 2003y. Ear-training. Level IV.

Modulations and extended musical passages, for dictation and sight-singing.—Staff.

Prerequisite: Course V 2002 or the equivalent.

M W 9:00.

V 2100x-V 2101y. Theory I and II.

Autumn Term: modal counterpoint in two parts; all species (five), invertible counterpoint at the octave and the twelfth, and canon. Spring Term: Diatonic harmony in four parts; triads and transformations (inversions and diatonic seventh chords); techniques of prolongation, embellishment, tonicization, and auxiliary (neighbor) modulations.—Staff.

Prerequisite: A grade of B minus or higher in Section III of Course V 1329 or on an equivalent examination given by the Department of Music and on the placement test for ear-training.

Corequisite: An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement test.

4 points.

Sections I, II Tu Th 10:35-11:50.

Laboratory Tu Th 12:10-1:00.

Section III M W 5:40-6:55.

Laboratory M W 7:00.

V 2100y, V 2101x. Theory I and II.

Equivalent to V 2100x-V 2101y.—J. Baker, F. Lerdahl.

Prerequisite: A grade of B-minus or higher in Section III of Course V 1329 or on an equivalent examination given by the Department of Music and on the placement test for ear-training.

Corequisite: An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement test.

4 points.

Tu Th 1:10-2:25.

Laboratory Tu Th 2:35-3:25.

V 2300x-V 2301y. Theory III and IV.

Eighteenth-century harmonic and contrapuntal techniques; double counterpoint, canon, two-part writing in the form of binary movements, inventions, and contrapuntal settings of chorale tunes.

Prerequisite: A grade of B-minus or higher in Course V 2101, or on an equivalent examination given by the Department of Music, and Course V 2000 or Course V 2001.

Corequisite: An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points.

Section I Tu Th 10:35-11:50. P Schubert.

Section II Tu Th 2:40-3:55. M. Lifschitz.

V 2303x. Theory V.

Selected eighteenth- and nineteenth-century works.

Prerequisite: Courses V 2300-V 2301 or the equivalent.

Corequisite: Appropriate ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points.

Section I W F 10:35-11:50. P. Carpenter.

Section II Tu Th 2:40-3:55. J. Baker.

V 2305y. Theory VI.

Introduction to harmonic and contrapuntal techniques and structural principles of twentieth century music: selected twentieth century works.

Prerequisite: Course V 2303 or the equivalent.

Corequisite: appropriate ear-training sequence (until completion of that sequence) as indicated by placement examination.

3 points.

Section I W F 10:35-11:50. P. Carpenter.

Section II Tu Th 2:40-3:55. J. Baker.

V 3239x-V 3240y. Composition.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano.—M. Zuckerman.

Prerequisite: Course V 2301 or written permission of the instructor.

2 points.

Tu 10:00-11:55.

V 3241x-V 3242y. Advanced Composition.

Continuation of Course V 3239-V 3240.—M. Lifchitz.

Prerequisite: V 3239-V 3240 and permission of the instructor.

3 points.

M 1:10-3:00.

V 3373x-V 3374y. Orchestration, Conducting and Score Reading.

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments.

Prerequisite: Course V 2101 or the equivalent.

3 points.

Section I Tu Th 2:40-3:55. H. Doris.

Section II Tu 4:10-6:40. H. Shanet.

PERFORMANCE ACTIVITIES

(Applied Music)

A detailed description of the following activities is given in *A Guide to Barnard*.

Academic credit is granted only as indicated below.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, 703 Dodge Hall, at least one week before registration.

V 1591x-V 1592y. University Orchestra and Chamber Music.

Auditions during registration period by appointment. Room 703 Dodge Hall. Students who register for orchestra alone will receive four points for four semesters, and will be charged at the rate of one point each semester. Students who register for orchestra and chamber music will receive four points for two semesters, and will be charged at the rate of two points each semester.—H. Shanet and Staff.

Audition necessary.

M 5:30-7:30 and additional rehearsals in the three weeks preceding each public concert.

V 1593x-V 1594y. Barnard-Columbia Chorus.

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester.—P. Schubert.

Audition necessary.

Tu Th 6:00-8:00.

UNIVERSITY BANDS

Auditions: Concert Band, during registration week and by appointment.—W. Brown.

Rehearsals, Tu Th 4:00-6:00.

COLLEGIUM MUSICUM

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

MUSIC FOR AN HOUR

This series of informal chamber concerts, held the last Tuesday in every month in the Sulzberger Parlor, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

INSTRUMENTAL INSTRUCTION

Written permission from the chairman. Registration in these courses is limited to music majors and students enrolled in the Theory sequence. Students will receive one course credit for four semesters, and will be charged at the rate of one course each semester.

Oriental Studies

Office: 321A Milbank Hall

Telephone: 280-5417

Professors

John Meskill (Chairman), Barbara Stoler Miller¹

Lecturer

David Gitomer

Other officers of the University offering courses listed below:

University Professor

W. Theodore de Bary

Professors

Edward Allworth, Isaac Barzilay, Richard Bulliet (History), Pierre J. Cachia, Ainslie T. Embree (History), Nina Garsoian (History), Moshe Held, Gary K. Ledyard, William Roff (History), H. Paul Varley, Alex Wayman, Herschel F. Webb, Ehsan Yarshater

Visiting Professor

David Rubin

Associate Professors

Kathleen R. F. Burrill, Maan Z. Madina

Adjunct Associate Professor

Vidya Dehejia (Art History)

Senior Lecturer

Jeannette Wakin

Assistant Professors

Paul Anderer, Peter Awn (Religion)¹, Carol N. Gluck¹, John Huehnergard (History), Robert Hymes, Krikor Maksoudian, Stephen Rittenberg, George Saliba, Richard Vinograd, Marsha L. Wagner

Lecturers

Irene Bloom, Peter Bol (Mellon Fellow), Amy Heinreich, Robert Hymes, Madeline Zelin

¹Absent on leave, 1981-82.

The primary aim of Oriental Studies is to introduce major Asian civilizations, their works and values, as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

Study in an East Asian or Middle Eastern language is required for the degree. The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures, and Middle East Languages and Cultures satisfies the requirements in the respective languages: Akkadian G 4204, *Intermediate Akkadian: Introduction to Old Babylonian*; Arabic W 1122, *Intermediate Modern Arabic*; Armenian W 1124, *Intermediate Armenian*; Chinese C 1202 or F 1202, *Intermediate Chinese* (second stage); Hebrew W 1122, *Intermediate Modern Hebrew*; Hindi W 1122, *Intermediate Hindi*; Japanese C 1202 or F 1202, *Intermediate Japanese* (second stage); Iranian W 1122, *Intermediate Persian*; Sanskrit G 6102, *Intermediate Sanskrit*; Turkish W 1122, *Intermediate Turkish*, or Urdu W 4002, *Advanced Urdu*.

Literature courses in the departments of East Asian Languages and Cultures and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chairman of Oriental Studies.

Students who wish to enter Chinese or Japanese language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during the week *before* classes begin—contact Department of East Asian Languages and Culture (407 Kent) for exact dates. For placement above the introductory

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level in Arabic, Hebrew, Persian, Sanskrit, or Turkish, contact the Department of Middle East Languages and Cultures (609 Kent). All students wishing to enter the Hebrew language program or wishing exemption from the Hebrew language requirement must take a placement test. The test is administered *every Wednesday during August from 11-1* in 609 Kent Hall.

REQUIREMENTS FOR THE MAJOR

A student who plans to major in Oriental Studies is advised to consult a member of the department in the Spring semester of her freshman year. Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page 146.

To major in Oriental Studies, a student will choose to follow one of two tracks, East Asia or Middle East.

The East Asian Track

A minimum of 12 courses is required, including

2 of the following courses

India	Oriental Civilizations-Middle East V 3001	<i>Introduction to Major Topics in Asian Civilizations: The Middle-East and</i>
	Oriental Civilizations East Asia V 3002	<i>Introduction to Major Topics in Asian Civilizations: East Asia</i>
China	Oriental Civilizations V 3559	<i>Introduction to the Civilization of</i>
Japan	Oriental Civilizations V 3361 East Asian V 3201	<i>Introduction to the Civilization of</i> <i>Introduction to East Asian Civilization: Korea and Vietnam</i>

6 courses of an appropriate language, selected in consultation with an adviser;

4 courses on East Asia chosen from among those listed below, or with the adviser's permission, from the listings of other departments (Oriental Humanities V 3399-V 3400, *Colloquium*, may be substituted for one of the courses in this category); and

2 courses chosen from among East Asian seminars, East Asian W 4103, *Historiography of East Asia*; East Asian W 4101, *Critical Approaches to Chinese and Japanese Literature*; and Oriental Studies 99, *Independent Study*.

The Middle East Track

A minimum of 12 courses is required, including

Oriental Civilizations—Middle East V 3001	<i>Introduction to major Topics in Asian Civilization: The Middle East and India.</i>
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4 to 6 courses of an appropriate language (Akkadian, Arabic, Armenian, Hebrew, Hindi-Urdu, Persian, Sanskrit, Turkish, or Uzbek), selected in consultation with an adviser;

A minimum of 6 courses chosen as a concentration. The concentration may be in ancient Semitic languages and cultures, Arabic studies, Armenian studies, Central Asian studies, Hebrew language, Indian studies, Iranian studies, or Turkish studies. The courses required in each of the concentrations and other details will be explained by the adviser. The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East department office in 609 Kent Hall for a complete list of course offerings. See also the note on Graduate Courses at the end of this section.

Oriental Studies

REQUIREMENTS FOR THE MINOR

No minor is offered in Oriental Studies.

COURSES OF INSTRUCTION

GENERAL COURSES

Oriental Civilizations-Middle East V 3001x. Introduction to Major Topics in Asian Civilization: The Middle East and India.

Interdisciplinary and topical approach to major issues and phases in development of Asian civilizations and their role in the contemporary world.—P. Awn and A. Embree.

Not offered in 1981-82. Offered in 1982-83.

4 points.

Oriental Civilizations-East Asia V 3002y.

Introduction to Major Topics in Asian Civilization: East Asia.

Interdisciplinary and topical approach to major issues and phases in development of Asian civilizations and their role in the contemporary world.—I. Bloom, G. Ledyard, J. Meskill, H.P. Varley, M. Zelin.

4 points.

Tu Th 10:00-12:00.

Oriental Civilizations-Middle East V 3003x-V 3004y. Introduction to Islamic Civilization.

Islamic civilization and its characteristic political, social and religious institutions and intellectual traditions. Autumn Term: from pre-Islamic Arabian setting to 1800 A.D. Spring Term: from 1800 to the present.—J. Wakin.

3 points.

M W 2:00-3:15.

Oriental Civilizations-Middle East V 3357x. Introduction to the Civilization of India.

The development of Indian civilization from ancient times to the present with special attention to institutions, religion, the arts, and Islamic and Western influences.—A. Embree.

3 points.

Tu Th 9:00-10:15.

Oriental Civilizations V3359y. Introduction to East Asian Civilizations: China.

Evolution of Chinese civilization from ancient times to the 20th century, characteristic institutions and traditions.—J. Meskill.

3 points.

Tu 2:10-3:00. Th 2:10-4:00.

Oriental Civilizations V 3361x. Introduction to East Asian Civilizations: Japan.

Development of Japanese society and culture; national self-image and values as revealed in thought, institutions, literature and the national arts.—H. Webb.

3 points.

Tu 2:10-3:00. Th 2:10-4:00.

Oriental Studies V 3379x. Readings in Oriental Studies.

Focus for 1981-82: place of ideas in the modern revolutionary age. Social and political thinkers and conditions of the times.—J. Meskill.

3 points.

Th 2:10-4:00.

Oriental Humanities V 3399x, V 3400y. Colloquium.

Major works of Middle Eastern, Indian, Chinese and Japanese origin. V 3399x; Koran, Sufi poetry, *Upanishads*, Buddhist sutras, *Bhagavad Gita*; V 3400y; *Analects*, *Tao-te Ching*, *Dream of the Red Chamber*, *Tale of Genji*, and Chinese and Japanese poetry.—J. Meskill, S. Rittenberg.

Prerequisite: Two courses from among literature, philosophy, religion, and Humanities, or permission of the instructor.

4 points.

W 4:10-6:00.

Oriental Studies-Religion W 4399x, W 4400y. Colloquium on Major Texts of the Oriental Traditions in Religion, Ethics, Social Thought and Literature.

Readings in translation. Autumn semester: Koran, Islamic philosophy and theology, Ibn Khaldun, Sufi poetry, the *Upanishads*, Buddhist sutras, *Bhagavad Gita*, Sankara, Indian epics and drama; Spring semester; *Analects* of Confucius, Lao Tzu, Mencius, *Lotus Sutra*, Zen texts, *Dream of the Red Chamber*, *Tale of Genji*, and Nō plays. Ethical and religious issues and their characteristic expression in diverse cultural traditions through a variety of literary forms.—P. Bol, W. de Bary, D. Gitomer, A. Heinreich.

Knowledge of the original language not required.

3 points.

M 4:10-6:00, W 4:10-5:00 (conference hour for undergraduates).

Middle East-Oriental Humanities V 3031y. Islamic Literature in Translation.

Modern literature of the Arabs, Persians, Turks, and other Islamic peoples.—K. Burrill.

Not offered in 1981-82.

3 points.

Middle East-Oriental Humanities V 3403y. Forms of Art in Indian Asia.

Classical Indian poetry, drama, painting, and sculpture from the perspectives of Indian religious ritual, political patronage and aesthetic theory.—B. Miller.

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*Not offered in 1981-82.
3 points.*

Oriental Humanities V 3200x. Oriental Encounters: The American Experience.

Oriental classics of India, China, and Japan through the perceptions of Emerson, Thoreau, Whitman, Eliot, Pound, Merton, Kerouac, Ginsberg, and Snyder. The *Bhagavad Gita*, the *Dhammapada*, Zen dialogues and other sources relevant to the work of these writers.—B. Miller.

*Not offered in 1981-82. Offered in 1982-83.
3 points.*

Oriental Humanities V 3340x. Masterpieces of Art in China, Japan, and Korea.

Selected masterpieces of painting, sculpture, and architecture from the Han Empire in China to modern times in Japan, in relation to contemporary history, philosophy, religion, and literature.—R. Vinograd.

3 points.

Tu Th 1:10-2:25.

Oriental Studies-Philosophy C 3915y. Philosophical Problems in Human Rights: A Comparative Analysis of Eastern and Western Traditions.

Idea of human rights in Western and Eastern traditions. Plural sources for contemporary interpretations of human rights, including classic works of Western and Eastern moral and political philosophy. Philosophical analysis of conceptual and methodological questions present in determining the meaning, scope, and justification of human rights is undertaken. Relevance of this analysis for practical aspects of contemporary discussions of international rights questions.—I. Bloom and D. Sidorsky.

*Not offered regularly. Not offered in 1981-82.
3 points.*

Oriental Studies 99x, 99y. Independent Study.

Specialized reading and research projects planned in consultation with members of the Oriental Studies teaching staff.—Staff.

Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.

4 points.

Hours to be arranged.

EAST ASIAN

East Asian V 3201y. Introduction to East Asian Civilization: Korea and Vietnam.

Survey of Korean and Vietnamese history and culture; special problems of these "buffer" states within East Asia in both traditional and modern times.—G. Ledyard.

Not offered in 1981-82.

3 points.

East Asian V 3110x. Rulers and Ruled in Traditional China.

An introduction to Chinese society approached through changes in the nature of elites and ruling classes from antiquity to the nineteenth century: the social and economic contexts and cultural expressions of their dominance; problems of their relation to other social strata and influence over the development of Chinese society as a whole; comparisons to Europe and to other Asian societies.—R. Hymes.

3 points.

Tu Th 2:40-3:55.

East Asian V 3310y. Rebellion and Revolution in Modern China.

Social protest and revolutionary movements in 19th- and 20th-century China; sectarian rebellion, secret societies and development of the communist revolution.—M. Zelin.

3 points.

Tu Th 1:10-2:25.

East Asian V 3365x. Poetry and Society in East Asia.

An examination of Chinese, Japanese, and Korean poetry in its social context, focusing on the political, ideological, and aesthetic forces which shaped the distinctive poetic forms. Topics include Chinese court poetry, popular songs of protest, political allegory, poetry contests, and the culture of the "floating world."—M. Wagner.

3 points.

Tu Th 1:10-2:25.

East Asian V 3510y. Love Poetry in China and Japan.

Selected poems in translation, covering a wide range of periods and genres; folk songs and court poetry, male and female poets, religious texts and popular ballads, Chinese and Japanese aesthetics, as contrasted with Western literary theories and poetic traditions.—M. Wagner.

Not offered in 1981-82. Offered in 1982-83.

3 points.

East Asian V 3520y. Two Great Novels and their Worlds: Tale of Genji and Dream of the Red Chamber.

Two masterpieces of Japanese and Chinese fiction, in translation, and through them the societies which they reflect.—M. Wagner.

3 points

M W 1:10-2:25.

East Asian V 3540y. Processes of Modernization in China and Japan.

Modernization process in China and Japan in the last century; institutional and cultural change.—R. Hymes and H. Varley.

Offered in alternate years. Not offered in 1981-82.

3 points.

Oriental Studies

East Asian V 3610y. Social Change Reflected in the Literature and Films of Modern Japan.

Changes in society and values during the modernization of Japan from the mid-19th century until the present, using fiction, diaries, popular culture, and films.—C. Gluck.

Not offered in 1981-82.

3 points.

East Asian V 3620x. Japan: The Aesthetic Tradition.

Cultural history, stressing aesthetic sensibility of the Japanese as revealed in religion, society, thought, and the arts. Landscape gardens, the culture of tea, Nō theater, and modern "I-novel."—H. Varley.

3 points.

M W 2:40-3:55.

East Asian V 3625y. The Samurai, a Social and Cultural History of Japan's Warrior Class.

A study of the warrior class of premodern Japan, its traditions, customs, and values, based on portrayals of the samurai and samurai life in historical records, literature, and the visual arts.—H.P. Varley.

3 points.

M W 2:40-3:55.

East Asian V 3605x. Writers of Excess: Literature and Imagination in Modern Japan.

A study of radical or aberrant strategies of cultural expression, after, and in response to, Japan's exposure to the West. Works range from the late nineteenth century poetry of Tokoku, to the contemporary fiction and plays of Abe, Mishima, and others.—P. Anderer.

3 points.

Tu Th 10:35-11:50.

East Asian V 3902y. Senior Seminar: China.

—M. Wagner and staff.

Permission of the chairman required.

4 points.

Hours to be arranged.

East Asian W 3904y. Senior Seminar: Japan.

—H. Webb, P. Anderer.

Permission of the chairman required.

4 points.

Hours to be arranged.

Chinese W 4027x. Introduction to Chinese Thought.

A general introduction to the major works of Chinese classical philosophy and to the systematizing of classical thought in the Han period.—W.T. deBary.

3 points.

M 9:00-10:50.

East Asian W 4101x. Critical Approaches to Chinese and Japanese Literature.

Principles of literary theory developed in the

West, contrasted with literary criticism of China and Japan. Application of these critical methods to selected works of Chinese and Japanese poetry and prose.—M. Wagner.

3 points.

Tu Th 2:40-3:55.

East Asian W 4103y. Historiography of East Asia.

Major issues in the practice of history illuminated by a comparison of the works of great occidental and oriental historians, with emphasis on China.—R. Hymes.

3 points.

M W 2:40-3:55.

Chinese-History W 4820y. Overseas Chinese in Southeast Asia: History and Society, 13th-20th Centuries.

The growth of the Chinese diaspora from early trading communities to the established minorities of today, emphasizing adaptation and retention of Chinese culture and institutions, economic roles, and sociopolitical relationships with host societies.—R. Roff.

3 points.

Tu Th 4:10-5:25.

History-Japanese W 3600x. World War II in American and Japanese History.

From the separate and differing viewpoints of the two nations, an examination of the war as a central experience in recent history. Meaning and impact of the war on social, political, and intellectual life in the period from Versailles through Vietnam.—C. Gluck with lectures by H. Graff, J. Shenton and others.

Not offered in 1981-82.

3 points.

MIDDLE EAST

Armenian History G 4501x, G 4502y. Armenian History and Civilization, I and II. (formerly History W 4501x, W 4502y)

Introduction to the history and culture of Greater Armenia from the pre-Armenian Urartean period to the end of the Bagratid dynasty.—N. Garsoian.

3 points.

Tu 2:10-4:00.

Art History W 4127y. History of Indian Art.

A general introduction, focusing on selected topics, including Buddhist narrative sculpture, rock-cut monuments of the Deccan, and art associated with Tantra.—V. Dehejia.

3 points.

Tu 4:00-6:00, with conference hour to be arranged.

History W 1001x. History of Ancient Egypt and the Eastern Mediterranean.

J. Huehnergard.

3 points.

M W 6:10-7:25.

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History W 1002y. History of Ancient Mesopotamia and Asia Minor.

J. Huehnergard.

3 points.

M W 6:10-7:25.

History-Middle East G 4470y. Topics in the Ancient History of Southwest Asia.

Southwest Asia in ancient times, considering both textual and archaeological evidence.—J. Huehnergard.

Knowledge of the original languages is not required.

3 points.

Th 2:10-4:00.

History W 4825x-W 4826y. History of Modern India and Pakistan.

Development of modern India from the decline of the Mughal Empire and the first establishment of British power to the present time.—A. Embree.

3 points.

M W 2:40-3:55.

Indic-Religion G 4335x. History and Doctrine of Indian Buddhism.

A. Wayman.

3 points.

W 11:00-12:50.

Indic-Religion G 4308y. Hinduism and Buddhism.

A. Wayman.

3 points.

W 11:00-12:50.

Iranian W 4450y. Iranian Mythology. (formerly Persian W 4450)

Typology of Iranian myths and legends; Indo-Iranian myths and their sources; Iranian myths as they developed in Zoroastrian Persia. Mythical and legendary history of Iran from Avestan times to the Islamic period. Iranian myths and legends as reflected in Iranian epics, folklore, and popular tales. Firdausi's *Shahnama*, a compendium of Iranian myths.—E. Yarshater.

Knowledge of Persian not required.

Not offered in 1981-82.

3 points.

Islamic W 4206x. Modernist Thought in the Arab World.

New currents of thought in the Muslim Arab world; relation of Islam to events of the nineteenth and twentieth centuries.—M. Madia.

3 points.

Tu 2:10-4:00, plus third hour to be arranged.

Islamic G 4230x. Survey of Islamic Science.

Survey of scientific tradition of Islam from its earliest times till the end of the Middle Ages.—G. Saliba.

Not offered in 1981-82.

3 points.

Islamic-Religion V 2630x. Islam.

Survey of Islamic institutions, ideas, and spirituality, their origin and development in the formative and classical periods (7th to 13th century A.D.), and their continued evolution in a variety of cultural settings.—Instructor to be announced.

3 points.

M W 11:00-12:15.

Islamic-Religion V 3635y. History of Sufism.

History of the Islamic mystical tradition from its origins in the 8th century, through its classical and institutional phases in the 12th century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world.—Instructor to be announced.

3 points.

M W 1:10-2:25.

Islamic-Religion G 4610y. Islamic Religion.

Survey of Islamic institutions in the formative and classical periods; revelation, prophecy, law, philosophy, theology, spirituality, community, religion and politics.—Instructor to be announced.

A general knowledge of one other Western religion is recommended as well as familiarity with basic methodology in the study of religion.

3 points.

W 4:10-6:00.

Middle East W 3010x. History of Astrology in the Ancient and Classical World.

Role of astrology in the development of astronomy; calendar systems of the ancient Orient; origin of the zodiac division; deification of the planets and stellar myth; influence of astrology in Egypt, Babylon, China, Greece, Rome, Iran, and India.—A. Wayman.

3 points.

Tu Th 2:40-3:55.

Other general courses related to Oriental Studies:

Political Science 24y. Colloquium on Asian Political Thought.

D. Dalton.

Religion V 1102x, V 1102y. Introduction to the Study of Religion: Eastern Religions.

Also note offerings under Eastern Religions in the Religion Department.

ORIENTAL LANGUAGE COURSES

Language courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for detailed descriptions of courses. Three or more years of language

Oriental Studies

instruction, beginning at the elementary level, are offered in Arabic, Armenian, Chinese, Hindu-Urdi, Japanese, Persian, Sanskrit, Turkh.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.



Philosophy

Office: 326 Milbank Hall

Telephone: 280-2064

Professors

Sue Howard Larson, Mary Mothersill (Chairman)

Visiting Professor

Marshall Cohen

Assistant Professors

Jeffrey Miles Blustein, Rebecca Goldstein

Other officers of the University offering courses in Philosophy:

Professors

Bernard Berofsky, Robert D. Cumming, Arthur C. Danto, Richard F. Kuhns, Jr., Isaac Levi, Sidney Morgenbesser, Charles D. Parsons, David Sidorsky, James J. Walsh¹

Assistant Professors

Maudemarie Clark, Deborah Goldberg, Charles Larmore, Richard Patterson, Wilfried Sieg²

Senior Mellon Fellow

James Higginbotham

¹Absent on leave, Spring Term.

²Absent on leave, 1981-82.

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, and philosophy of logic. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in technique of conceptual analysis, argument, and the interpretation of texts.

Philosophy 1, *Introduction to Philosophy*, is offered each term in four or five sections. Reading and course requirements vary from year to year, and from section to section. At the intermediate level, in addition to the traditionally central subjects, there are a number of courses designed to meet the needs of students who intend to major in other fields.

The Barnard-Columbia Undergraduate Philosophy Club is an active group that sponsors regular discussion meetings with guest lecturers and social gatherings. Announcements of lectures, conferences, and special events are regularly posted in the department office.

REQUIREMENTS FOR THE MAJOR

A major in Philosophy consists of at least 8 courses:

Philosophy C 3415 or F 3401 Formal Logic

One of the following courses

Philosophy 9	<i>Ethics</i>
Philosophy 63	<i>Attitude, Action, and Reason</i>
Philosophy V 3803	<i>The Concept of Beauty</i>
Philosophy 72	<i>Ethics and Medicine</i>
Philosophy 76	<i>Social Philosophy Seminar</i>

One of the following courses

Philosophy V 3501	<i>Theory of Knowledge</i>
Philosophy V 3601	<i>Metaphysics</i>
Philosophy 79	<i>Theory of Meaning</i>
Philosophy 50	<i>Philosophy of Body</i>

Philosophy

Two of the following courses

Philosophy V 3222	<i>Descartes, Spinoza, and Leibniz</i>
Philosophy V 3240	<i>Locke, Berkeley, and Hume</i>
Philosophy V 1101	<i>The History of Philosophy: Pre-Socratics through Augustine</i>
Philosophy V 1201	<i>The History of Philosophy: Aquinas through Kant</i>
Philosophy 38	<i>Recent European Philosophy</i>
Philosophy 61	<i>Greek Philosophy</i>

Two semesters of Philosophy 88-89, *Majors' Seminar*; and

One elective.

The sequence of courses is to be determined in consultation with the major adviser. Philosophy 88-89 may be taken either in the senior year or beginning in the second term of the junior year. The topic for the seminar is set each year on the basis of consultation with the students.

There is no majors' examination or senior thesis, although the latter is an option that may be allowed in special cases.

Philosophy 99, *Supplementary Readings in Philosophy*, is open to students who have a well-developed individual application and departmental approval.

Senior majors may serve on a voluntary basis as teaching assistants in Philosophy I sections; they hold optional discussion sections, and meet with students on an individual basis.

The department also welcomes double majors and is prepared to advise on problems of schedule.

REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Distribution of the courses should be chosen in consultation with the adviser.

COURSES OF INSTRUCTION

1x, 1y. Introduction to Philosophy.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge, readings from historical and contemporary sources.

—Staff.

3 points.

Section I M W F 9:00.

Section II M W F 10:00.

Section III M W F 11:00.

Section IV Tu Th 10:35-11:50.

Section V Tu Th 1:10-2:25.

9x. Ethics.

Introduction to the central problems of moral philosophy: action and reasons for action; pleasure and pain; obligation; rights and duties; alternative moral ideals; the use of moral language.—M. Mothersill.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

Tu Th 10:35-11:50.

29y. Philosophy of Law.

Traditional theories: legal positivism, legal realism, and natural law theory; emphasis on the

relation of law to morals; the bearing of each theory on such issues as preferential treatment, legal control of sexual conduct, the power of the courts in a democratic society, civil disobedience, the legal control of war and the nature of the international law.—M. Cohen.

3 points.

M 2:10-4:00, plus one hour to be arranged.

V 3803y. The Concept of Beauty. (formerly 34)

Introduction to aesthetics as an attempt to develop a systematic theory of criticism. Theory is tested against critical findings in fields of music, literature, dance, and the visual arts; readings from classical and contemporary sources.—M. Mothersill.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

Tu Th 10:35-11:50.

38y. Recent European Philosophy.

Contemporary developments in continental philosophical movements: phenomenology, hermeneutics, neo-Marxist critical theory, structuralism and post-structuralism. Works

Philosophy

by Derrida, Foucault, Habermas, Gadamer and Heidegger, supplemented by readings from Anglo-American philosophers.—Instructor to be announced.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

Tu Th 1:10-2:25.

50x. Philosophy of Body.

General concepts of material body and the more specific concepts of animate, conscious, and human body as they appear in the works of Aristotle, Galileo, Descartes, Locke, Merleau-Ponty, Sartre, and other contemporary writers. Concepts of matter, criteria for individuation of bodies; relation of persons to their bodies.—R. Goldstein.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

M W 1:10-2:25.

51x. Duty and Feeling: The Ethics of the Family.

Philosophical examination of moral and social policy issues in connection with the contemporary family. Duties and rights of parents and children; marriage; population control; women's liberation and the family; equal opportunity and the family. Kant, Aristotle, Hume, Locke, Russell, Plato, and contemporary legal, sociological, and philosophical literature.—J. Blustein.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

Tu Th 10:35-11:50.

53y. Philosophy of Psychology.

Philosophical questions concerning the nature of a science of psychology and questions related to specific psychological theories such as behaviorism, psychoanalytic theory, and rationalist psychology. Possibility of an explanation of behavior, irreducibility of psychology to the physical sciences, ontological status of theoretical constructs, innate ideas, concepts of madness. Skinner, Freud, Fodor, Chomsky, Quine, and Davidson.—R. Goldstein.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

M W 1:10-2:25.

61y. Greek Philosophy.

Introductory study of Socrates, Plato and Aristotle with some attention to pre-Socratic thought. Nature of knowledge; the world, and soul; relevance of epistemology for ethics and political theory.—R. Goldstein.

Not offered in 1981-82.

3 points.

63x. Attitude, Action, and Reason.

The role of the ideal of rationality in understanding human attitudes and actions. Topics include intentional action, reasons and causes, speech and thought, the indeterminacy of translation, the autonomy of meaning and choice. Readings from classical and contemporary sources including Aristotle, Descartes, Spinoza, Hume, Wittgenstein, Anscombe, Davidson.—S. Larson.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

M W 2:40-3:55.

V 3222x. Descartes, Spinoza and Leibniz. (formerly V 3350)

A systematic analysis of concepts central to seventeenth-century Rationalism. The focus is on problems in epistemology and metaphysics discussed in relationship to logical theory and philosophy of science.—R. Goldstein.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

M W F 10:00.

V 3240y. Locke, Berkeley and Hume. (formerly V 3351)

A study of the principal topics of British Empiricism. Problems discussed include: sense perception and innate ideas, the foundations of empirical knowledge, substance and cause, personal identity, freedom of the will, the grounds of political authority, justice and obligation.—Instructor to be announced.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

M W F 10:00.

V 1101x. The History of Philosophy: Pre-Socratics through Augustine. (formerly V 1103)

Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine.—J. Walsh.

3 points.

M W 2:40-3:55.

V 1201y. The History of Philosophy: Aquinas through Kant. (formerly V 1104)

Exposition and analysis of the positions of the major philosophers from Aquinas through Kant.—C. Larmore.

V 1101 is not a prerequisite for this course.

3 points.

M W 2:40-3:55.

V 3855y. Philosophical Implications of the Novel. (formerly 43).

A study of the relation of philosophy to literature through an examination of philosophical themes in literary texts and of literary

Philosophy

strategies in philosophical texts.—R. Kuhns.
3 points.

Tu Th 2:40-3:55.

V 3801x. Aesthetics.

Systematic inquiry into major problems in the philosophy of art: Idealism (Hegel, Nietzsche, Freud); Modernity and Formalism (Kant); and Imitation Theory (Plato and Aristotle).—R. Kuhns.

3 points.

Tu Th 2:40-3:55.

V 3850x. Concept of Literature.

Analysis of linguistic art, oral and written; philosophical problems raised by tradition, style, rhetorical analyses, metaphor, and other tropes, as well as by the thought, and claims of truth. Relationships between philosophy and literature.—Instructor to be announced.

Students are required to carry on individual research.

3 points.

Tu Th 1:10-2:25.

64x. Wittgenstein and his Influence.

Introduction to the work of Ludwig Wittgenstein with attention to his influence upon philosophers and non-philosophers. Basic readings from Wittgenstein's major works with additional readings from artists, writers, critics, and social scientists who claim him as a source of inspiration. Relationship between philosophical work and its contemporary cultural setting.—S. Larson.

Open to students without previous training in philosophy. Prerequisite: One philosophy course or permission of the instructor.

Not offered in 1981-82.

3 points.

72x. Ethics and Medicine.

Philosophical examination of moral issues arising in medical theory and practice. Right to receive health care treatment, euthanasia, abortion, experimentation on human subjects, behavior control, allocation of scarce medical resources, and eugenics. Readings from philosophical, medical, and legal literature.—J. Blustein.

Permission of the instructor required.

3 points.

M W F 10:00.

76y. Social Philosophy.

Interplay between political and personal life, public and private spheres: the nature and value of privacy, invasions of privacy, friendship, and sexual freedom. Readings from philosophical and legal literature.—J. Blustein.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

M W F 12:00.

220

V 3501x. Theory of Knowledge. (formerly W 3188 and 77)

Contemporary issues in the theory of knowledge, and their historical sources.—Instructor to be announced.

3 points.

Tu Th 2:40-3:55.

79y. Theory of Meaning.

Consideration of the nature of language and of truth, with attention to the role of the concept of truth in constructing theories of meaning for natural languages: Frege, Tarski, Austin, Davidson, and others.—S. Larson.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

M W 2:40-3:55.

V 3601y. Metaphysics. (formerly V 3123)

Systematic treatment of some major metaphysical topics, e.g. necessity, causality, particulars and universals, personal identity; readings from classical and contemporary authors.—B. Berofsky.

Prerequisite: One philosophy course or permission of the instructor.

3 points.

M W 11:00-12:15.

84y. Philosophy of Education.

Philosophical presuppositions of intellectual and moral education; innate ideas; natural moral characteristics; permissiveness; "free" schooling, "de-schooling," material and moral incentives. Selections from Plato, Rousseau, Piaget, Dewey, Chomsky, Illich, Neil, and current periodical literature.—J. Blustein.

Not open to freshmen.

3 points.

Tu Th 1:10-2:25.

88x-89y. Majors' Seminar.

Intensive study of selected philosophical classics; discussions, oral reports, and term papers.—x: S. Larson; y: R. Goldstein.

Enrollment limited to majors. Required of all majors.

4 points.

W 4:10-6:00. Conference hours to be arranged.

99x, 99y. Supplementary Readings in Philosophy.

To be taken only with the consent of the instructor and permission of the department.

4 points.

Hours to be arranged.

COLUMBIA COLLEGE AND SCHOOL OF GENERAL STUDIES COURSES

Please consult the appropriate bulletin for complete descriptions of the following courses in Philosophy:

C 1010x, C 1010y. Methods and Problems of Philosophic Thought.

D. Sidorsky, A Danto.

3 points.

Tu Th 10:35-11:50.

W 3131x. Aristotle.

R. Patterson.

3 points.

Tu Th 10:35-11:50.

W 3270x. Nineteenth-Century Philosophy.

M. Clark.

3 points.

Tu Th 1:10-2:25.

W 3301y. Twentieth-Century Philosophy.

D. Sidorsky.

3 points.

M W 11:00-12:15.

W 3350x. Existentialism.

R. Cumming.

Prerequisite: Permission of the department.

Enrollment limited to 35 students.

3 points.

M W 4:10-5:25.

C 3405y. Introduction to Logic and Philosophy of Science.

I. Levi.

3 points.

Tu Th 2:40-3:55.

C 3415x, C 3415y. Formal Logic.

x: C. Parsons; y: Instructor to be announced.

3 points.

x: M W F 10:00.

y: Tu Th 9:10-10:25.

W 3574x. The Scientific Revolution.

C. Larmore.

3 points.

M W 11:00-12:15.

W 3701x. Moral Philosophy.

D. Goldberg.

3 points.

M W F 9:00.

W 3786x. Free Will and Responsibility.

B. Berofsky.

3 points.

M W 2:40-3:55.

F 1401x. Elementary Logic.

L. Cauman.

3 points.

M W 6:10-7:25.

F 3410y. Formal Logic.

L. Cauman.

3 points.

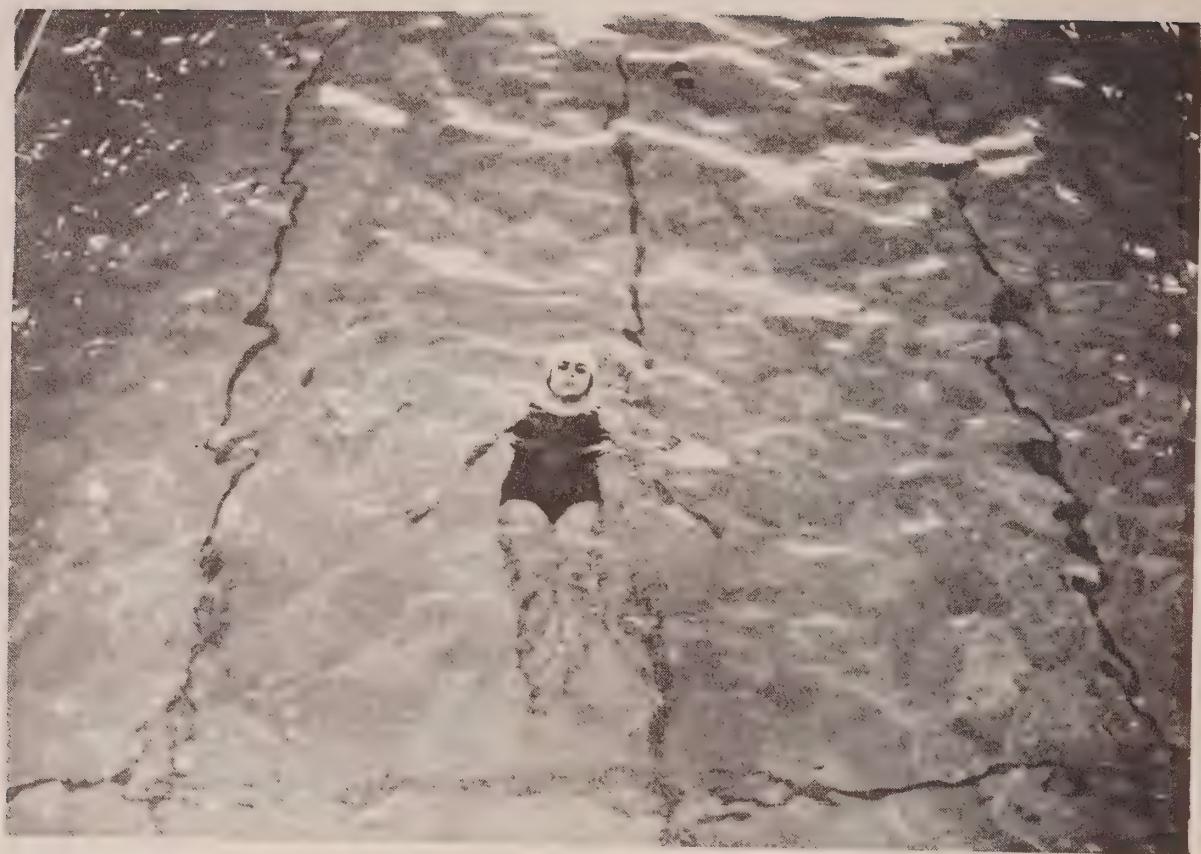
M W 6:10-7:25.

Economics-Philosophy C 3910y. Seminar in Marxism.

S. Morgenbesser, A. Erlich.

3 or 4 points.

Hours to be arranged.



Physical Education

Office: 209 Barnard Hall

Telephone: 280-2085
Intercollegiate Athletics: 280-2233

Professor

Marion R. Philips (Chairman)

Assistant Professor

Amy Rady

Associates

Lynda Calkins-McKenna, Mary Curtis, Jean Follansbee, Abby Herzog, Marjorie Greenberg (Director of Athletics), Nancy Kalafus, Kathleen Moore, Marian Rosenwasser¹

Instructors

Connie Dubble, David Henry

¹Absent on leave, 1981-82

Curriculum

The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, movement, fitness, and folk dance. Modern dance, ballet, tap, and jazz dance courses are offered under the auspices of the Dance Program and may be taken to fulfill the Physical Education requirement. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential, and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

The Intercollegiate Athletic program provides the opportunity for highly skilled students to participate in college sponsored competition while earning Physical Education credit.

Extra-Curricular Program

The Recreational Athletic Association (RAA) conducts intramurals, sponsors sports clubs such as bowling, gymnastics, and soccer, and plans recreation programs.

The Council on Intercollegiate Athletics (CIA) currently sponsors 8 varsity teams: Archery, Basketball, Cross Country, Fencing, Swimming and Diving, Tennis, Track and Field, and Volleyball. Teams enjoy competitive schedules within the metropolitan area and the Ivy League Conference. Teams and individuals may qualify for participation in New York State, Eastern, and National Championships sponsored by the Association of Intercollegiate Athletics for Women. Contact Marjorie Greenberg, Director of Athletics, for further information.

Health Status

Students who have failed to submit a medical report to the Office of Health Services may *not* participate in physical education classes and activities. Freshmen will receive a failure for such omission.

Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity where possible, based upon the recommendations of the College Physician.

Posture Analysis

Freshmen students may elect to have a complete posture analysis with follow-up examinations. Posture Laboratory is offered as a course each semester for students who wish to improve body alignment.

Physical Education

Requirement

Students admitted as freshmen must complete two semesters in the freshman year, and two semesters beyond the freshman year. Transfer students are required to have two semesters credit beyond the freshman year. Transfers who enter as second semester freshmen must also complete one course in the freshman year.

Registration

A complete schedule of courses is prepared each semester for Preregistration, and schedules are available in the Physical Education Department Office, 209 Barnard Hall. preregistration should be confirmed before filing programs with the registrar. Students must include physical education courses by **number, title, section, and sequence number** on final programs filed with the registrar. Students who do not preregister may register during the first two days of the semester in the gymnasium.

An agreement between the Department of Physical Education of Barnard College and Columbia College permits limited enrollment of Barnard students in some Columbia courses. Columbia College and Engineering School students may register for some Barnard courses through the Columbia Physical Education Department. **Other Columbia University students must receive permission of the Physical Education Department to register** before completing registration procedures.

Courses

Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level. Beginner = (A), low intermediate = (B), intermediate = (C), advanced = (D).

COURSES OF INSTRUCTION

AQUATICS COURSES

20x, 20y. Beginning Swimming. (A)

Development of confidence and survival techniques in the water. Introduction of front crawl and elementary backstroke.

Section I M W 12:10.

Section II M W 2:10.

Section III Tu Th 2:10.

21x, 21y. Low Intermediate Swimming. (B)

Review of survival techniques, front crawl and elementary backstroke. Introduction of diving and breaststroke.

Section I M W 1:10.

Section II Tu Th 12:10.

22x, 22y. Intermediate Swimming. (C)

Further development of the front crawl, elementary backstroke, and breaststroke. Introduction of advanced survival techniques, side-stroke, backcrawl and turns.

Section I M W 11:00.

Section II Tu Th 11:00.

Section III Tu Th 1:10.

23x. Advanced Swimming. (D)

Development of endurance and perfection of stroke technique of front and back crawl, elementary backstroke, sidestroke, breaststroke, trudgeons, inverted breaststroke, butterfly, and overarm sidestroke. Synchronized Swimming, Competitive Swimming,

Water Polo, and Snorkeling.

Not offered in 1981-82.

24x, 24y. Swim Fitness. (CD)

Combination of various swimming strokes and water exercises used to develop cardiovascular endurance and muscle tone.

Section I M W 10:00.

Section II Tu Th 9:30-10:20.

25x, 25y. Lap Swim. (D)

Students determine an individual training program with the instructor on a contract basis. *Not open to first semester freshmen. Swimming test for class admission given at first class meeting.*

Section I M W 9:00.

Section IIx Tu Th 4:10.

26x. Synchronized Swimming. (CD)

Basic water ballet, individual figures and composition.

Tu Th 3:10-4:00.

28x, 28y. Advanced Lifesaving and C.P.R. (D)

Personal safety, swimming rescues, preventive lifeguarding; leads to Red Cross certification. *Swimming test for class admission given first class meeting.*

x: M W 3:10-5:00.

y: Tu Th 3:10-5:00.

Physical Education

29y. Water Safety Instructor Course. (D)

Review of skills for beginner through lifesaving courses, instruction in teaching techniques; leads to Red Cross certification; **Current Advanced Lifesaving certification required.**

Swimming test for class admission given first class meeting.

Permission of instructor required.

M W 3:10-5:00.

FOLK DANCE COURSES

40x, 40y. Beginning Folk Dance. (A)

Basic step combinations, formations, dances and background of the dances of Europe, the Near East, and the U.S.A.

Section I M W 11:00.

Section II M W 12:10.

41y. Low Intermediate Folk Dance. (B)

Intense practice in steps, formations and rhythms of European line, couple and set dances.

Not offered 1981-82.

42x. Greek and Related Balkan Dance. (B)

Panhellenic and regional dances of Greece and related circle and line dances from neighboring Balkan countries.

M W 10:00.

43x, 43y. American-British Dance. (A)

Survey of contra and set dances common to the U.S.A., England, Ireland, Scotland and Wales.

M W 9:00.

44x, 44y. Low Intermediate Israeli Dance. (B)

Selected dances representing diverse national origins of the Israeli people.

M W 1:10.

45y. Intermediate Folk Dance. (C)

Analysis, notation, and choreography of dances of Rumania and Israel.

M W 10:00.

SPORTS COURSES

50x, 50y. Beginning Archery. (A)

Basic techniques in target shooting for the beginner or novice; selection and care of equipment; knowledge of competition, including intercollegiate, open, and Olympic.

Section I Tu Th 1:10.

Section II Tu Th 12:10 (Autumn Term only).

51y. Intermediate and Advanced Archery. (CD)

Advanced techniques for the archer who has had the equivalent of a semester of instruction; opportunity to compete informally in class and to prepare for membership on the Archery Team.

Tu Th 12:10.

53x, 53y. Badminton. (ABCD)

Strokes, strategies and selection of equipment. Intra-class tournaments provide competition for all levels.

M W 1:10.

55x, 55y. Basketball. (ABC)

Basic skills of conditioning, ball handling, and shooting, offensive and defensive patterns of play. Drills as well as game play.

M W 4:10.

57x, 57y. Beginning and Low Intermediate Bowling. (AB)

Basic approach, delivery; spot bowling and spare conversion; scoring.

Section I M W 10:00.

Section II M W 11:00.

Section III M W 12:10.

Section IV Tu Th 10:00.

Section V Tu Th 11:00.

Section VI Tu Th 12:10.

58x, 58y. Open Hour Bowling. (CD)

Must average 100, show knowledge of technique and spot bowling to qualify.

Not open to first semester freshmen.

Permission of the instructor required.

Section I M W 1:00.

Section II M W 2:10.

Section III Tu Th 9:00.

Section IV Tu Th 1:10.

60x, 60y. Beginning Fencing. (A)

Basic approach, simple foil actions and footwork.

Section I M W 3:10.

Section II Tu Th 11:00.

Section III Tu Th 12:10.

61x, 61y. Low Intermediate and Intermediate Fencing. (BC)

Tactics and technical elements of fencing.

M W 4:10.

64x, 64y. Beginning Tennis. (A)

Basic forehand, backhand and introduction to the serve; scoring.

Section I M W 11:00.

Section II M W 3:10.

Section III Tu Th 10:00.

Section IV Tu Th 2:10.

65x, 65y. Low Intermediate Tennis. (B)

Refinement of forehand, backhand and serve; scoring; simulated games.

Section I M W 10:00.

Section II M W 2:10.

Section III Tu Th 3:10.

66x, 66y. Intermediate Tennis. (C)

Further development of strokes, service return; net play; doubles play.

Section I M W 9:00.

Section II Tu Th 11:00.

Physical Education

67x, 67y. Intermediate and Advanced Tennis. (CD)

Advanced net play, overheads; strategy; singles and doubles.

Permission of the instructor required.

Tu Th 9:00.

70x, 70y. Beginning, Low Intermediate and Intermediate Volleyball. (ABC)

Introduction of forearm pass, overhead fingertip pass, serve and spike, and basic offensive and defensive strategies.

Section I (AB) M W 12:10.

Section II (C) M W 12:10.

71x, 71y. Intermediate and Advanced Volleyball. (CD)

Power volleyball skills and various offensive and defensive strategies.

Tu Th 4:10.

SPECIAL COURSES

80x, 80y. Beginning Movement Workshop. (A)

Creative exploration, analysis and observation of movement.

Section I M W 2:10.

Section II Tu Th 9:00.

81x, 81y. Beginning Gymnastics.

Introduction to tumbling, floor exercise, and balance beam. Development of strength, flexibility, endurance, coordination and agility.

Tu Th 10:00-10:50.

83x, 83y. Beginning Fitness. (A)

Introduction to a variety of conditioning programs; improvement of flexibility, strength, and endurance.

Section I M W 10:00.

Section II M W 11:00.

Section III Tu Th 2:10.

84x, 84y. Intermediate Fitness. (C)

Intensive fitness program for students who have taken Course 83 or who have been engaged in a vigorous conditioning program.

M W 1:10.

85x, 85y. Weight Training.

Introduction to principles of weight training; use of the Universal Weight Machine. Programs tailored to individual needs.

Section I M W 9:00.

Section II M W 12:10.

Section III Tu Th 9:30-10:20.

86x, 86y. Posture Laboratory.

Exercises to strengthen and stretch the skeletal muscles; practice in the release of muscle tension and in the correct alignment of the body.

M W 2:10.

88x, 88y. Relaxation.

Techniques of releasing muscle tension in the skeletal muscles of the body.

Section I M W 3:10.

Section II Tu Th 3:10.

90x, 90y. Beginning Self Defense. (A)

Development of poise and confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

Section I Tu Th 3:10.

Section II Tu Th 4:10 (Autumn Term only).

91y. Intermediate Self Defense. (C)

Classical karate forms; techniques which rely on the effective use of the unarmed body; legal aspects of defense, general history of the martial arts, and conditioning exercises.

Tu Th 4:10.

93x, 93y. Beginning Yoga. (A)

Basic Hatha yoga positions; body awareness; relaxation.

Section I M W 4:10.

Section II Tu Th 2:10.

94x, 94y. Intermediate Yoga. (C)

Advanced Hatha yoga postures; inverted positions; breathing and concentration techniques.

Tu Th 10:35-11:50.

98x, 98y. Varsity Teams.

Credit toward the Physical Education requirement may be earned through participation on a varsity team. Each semester's participation is equivalent to one course. Coaches register team members after the teams have been selected.

99x, 99y. Independent Study.

Enrollment in a course of instruction.

Not open to first semester freshmen or transfer students. Approval of Department required. Limited to one semester of credit.

DANCE

See Dance Program (page 120) for course listings. Dance Courses 30-47 may be taken to fulfill the Physical Education requirement. Courses offered are:

Ballet—Beginning, Low Intermediate, Intermediate, Advanced.

Jazz—Low Intermediate, Intermediate, Modern—Beginning, Low Intermediate, Intermediate, Advanced.

Tap—Beginning, Intermediate.

Physics

Office: 502 Altschul Hall

Telephone: 280-3268

Professors

Richard M. Friedberg (Chairman), Samuel Devons (Director of History of Physics Laboratory)

Other officers of the University offering courses listed below:

Professors

Charles Baltay, Norman Christ, Gerald Feinberg, Henry M. Foley, Paolo Franzini, Sven R. Hartmann, Wonyong Lee, Robert Novick, James Rainwater, Malvin Ruderman, Allan M. Sachs

Assistant Professors

Joel Groves, Erick Weinberg

The study of physics ranges from disciplined preparation for professional work in physics itself, or a basic education in physics necessary for the study of, or work in, other sciences and medicine, to a more general familiarity with physics and its historical development as part of contemporary culture.

In cooperation with the faculty of the University, Barnard offers a thorough pre-professional curriculum. The faculty represents a wide range of expertise, with special strength and distinction in elementary-particle and theoretical physics.

The unique facilities of Barnard's History of Physics Laboratory, oriented to the broader perspective, are available to students at all levels—from introductory classes to individual studies and researches. There are occasional opportunities for students to participate in activities related to the laboratory, such as scientific film production.

The department offers four distinct introductory sequences, only one of which may ordinarily be taken for credit.

1. C 1001-C 1002, *Elementary Physics*; V 1305-V 1306, *Discovery and Experiment in Physics*, and W 3001-W 3002, *Art of Scientific Experiment*, are intended for liberal arts students whose aim is to achieve some qualitative understanding of science.
2. Either V 1003, V 1004, *General Physics*, or V 1103, V 1104, *General Physics*, is satisfactory preparation for medical school. Both cover the same material, but V 1103, V 1104 is somewhat more intensive and is designed for students majoring in sciences other than physics. Neither course is recommended as a foundation for more advanced work in physics.
3. An entering student with a serious interest in physics should enroll in the Autumn Term in C 1006, *General Physics I. Mechanics*, which begins a four-term sequence (C 1007 or C 1107, C 1011, C 1012, *General Physics II-IV*), leading to more advanced courses. (These courses may be taken without laboratory by nonmajors. See the Columbia College bulletin for the appropriate course numbers.)
4. Freshmen with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, C 1021, C 1022, *General Physics*, which replaces the first three terms of the sequence starting with C 1006. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.

A major in physics may prepare the way to a great variety of careers in, or related to, science. Students interested in such possibilities are encouraged to consult the department chairman. Students interested in studies in the History/Philosophy of Science should consult Professor Devons, or another member of the Columbia College Interdepartmental Committee for the History and Philosophy of Science.

Physics

REQUIREMENTS FOR THE MAJOR

A total of 15 courses are required for a major in physics.

C 1006, C 1107, C 1011 and C 1012, or C 1021, C 1022 and C 1012 with laboratory in either case:

W 3003	<i>Mechanics</i>
W 3007, W 3008	<i>Theory of Electricity and Magnetism</i>
G 4003	<i>Lagrangian Mechanics</i>
G 4015, G 4016	<i>Atomic Physics and Introductory Quantum Mechanics</i>
and at least one more semester at the G 4000-level;	
W 3072	<i>Seminar in Current Research Problems</i>
W 3083	<i>Electronics Laboratory</i>

and one course of intermediate laboratory work (W 3081, *Intermediate Laboratory Work*; Course 11, 12, *History of Physics Laboratory*), of which a minimum of six sessions (24 hours) of laboratory work in W 3081 is required.

Four terms of calculus are essential, and some additional work in mathematics is recommended. This program should also include a year of chemistry, although in some instances astronomy or biology may be substituted.

The major examination consists of the Graduate Record Examination in physics and a one-hour oral examination.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including C 1006, C 1007 or C 1107, C 1011, C 1012, and one course at the 3000- or 4000-level.

COURSES OF INSTRUCTION

V 1305x, V 1306y. Discovery and Experiment in Physics.

Topics in the history of physics with experimental work in the History of Physics Laboratory; primary sources of historic experiments in physics from the 17th to the 20th century.—Instructor to be announced.

This course is oriented primarily to non-science students.

Enrollment limited to 50 students. Permission of the instructor required.

4½ points.

Lecture Tu Th 1:10-2:25.

Laboratory 3 consecutive hours chosen from M or W 2:00-5:00, Tu or Th 2:30-5:30.

C 1001x, C 1002y. Elementary Physics.

Introduction to physics for students with no previous background. In the first semester the course deals with the physics of energy and in the second semester with relativity and subatomic physics.—A. M. Sachs.

This course uses very little mathematics. It does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students.

3 points.

Lecture Tu Th 11:00-12:15.

V 1003x, V 1004y. General Physics.

Mechanics and heat, electricity, magnetism, optics, and modern physics.—Staff.

Calculus is not a prerequisite for this course.

4 points.

Lecture and Recitation:

Section I M W F 11:00.

Section II Tu Th 9:00-10:15.

Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or 4:10-7:00.

Recitation and laboratory sections are arranged after the first class meeting.

V 1103x, V 1104y. General Physics.

Same topics as V 1003-V 1004 discussed at a somewhat higher level, using calculus.—Staff.

Prerequisite: Calculus I and II.

4 points.

Lecture M W F 11:00.

Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or 4:10-7:00.

Laboratory sections are arranged after the first class meeting.

C 1006x. General Physics I. Mechanics.

Fundamental laws of mechanics; kinematics; dynamics; work and energy; rotational dynamics and angular momentum; introduction to special relativity and relativistic kinematics.—Staff.

Physics

Corequisite: Calculus I or the equivalent.

3½ points.

Lecture and Recitation

Sections I and II M W F 9:00.

Section III Tu Th 11:00-12:15.

Laboratory 3 hours every other week. Times to be arranged after first class meeting.

C 1007y. General Physics II. Electricity and Magnetism.

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion.—Staff.

Prerequisite: Course C 1006. Corequisite: Calculus II or the equivalent.

3½ points.

Lecture and Recitation

Section I M W F 9:00.

Section II Tu Th 11:00-12:15.

Laboratory 3 hours every other week. Times to be arranged after first class meeting.

C 1107y. General Physics II. Electricity and Magnetism.

Topics of Course C 1007 are considered in greater depth; less time on routine applications and extended treatment of some of the more advanced topics.—Staff.

Prerequisite: Course C 1006.

3½ points.

Lecture and Recitation M W F 9:00.

Laboratory 3 hours every other week. Times to be arranged after first class meeting.

C 1011x. General Physics III. Optics and Thermodynamics.

Acoustical waves; nature of light; polarization; geometrical optics; interference and diffraction of light; heat; states of matter; gas laws, the laws of thermodynamics; kinetic theory of gases.—Staff.

Prerequisite: Course C 1006. Corequisite: Calculus III.

3½ points.

Lecture Tu Th 9:00-10:15.

Laboratory 3 hours every other week. Times to be arranged after first class meeting.

C 1012y. General Physics IV. Modern Physics.

Quantum effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles.—Staff.

Prerequisites: Courses C 1011 and C 1007 or C 1107.

3½ points.

Lecture Tu Th 9:00-10:15.

Laboratory 3 hours every other week. Times to be arranged after first class meeting.

C 1021x, C 1022y. General Physics.

Mechanics, heat, electricity, magnetism, and light.—Staff.

Prerequisite: Advanced placement in mathematics or some knowledge of differential and integral calculus, and permission of the departmental representative. (A special placement meeting is held during Freshman Orientation.)

4 points.

Lecture M W 4:10-5:25.

Laboratory 3 hours to be arranged at the first class meeting.

11x, 12y. Advanced History of Physics Laboratory.

Experimental investigations in the logical and historical development of physics studied by both laboratory and literary work. Students work individually or in collaboration with other students choose one or two examples (ranging from physics in the 17th to the 20th century), and study these thoroughly.—S. Devons.

Prerequisite: Good basic knowledge of physics, aptitude for laboratory work and individual initiative.

Permission of the instructor required.

Laboratory work is required.

2 points.

Hours to be arranged.

W 3003x. Mechanics.

Newtonian mechanics; conservative forces and potentials; oscillations, central forces.—Staff.

Prerequisite: General physics and integral calculus.

3 points.

M W 9:35-10:50.

W 3007x, W 3008y. Theory of Electricity and Magnetism.

Electrostatics, current flow, electromagnetism. Formulation of Maxwell's equations; some applications associated with lumped-impedance circuits, transmission lines and plane electromagnetic waves.—Staff.

Prerequisites: Course C 1007 or C 1107 or the equivalent, and differential and integral calculus.

3 points.

Tu Th 10:35-11:50.

W 3072y. Seminar in Current Research Problems.

Detailed study of a selected field of active research in physics; motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems.—Staff.

Permission of the department representative required. Open only to senior physics majors.

2 points.

Th 4:10-5:25.

Physics

W 3081x, W 3081y. Intermediate Laboratory Work.

Experiments in physical optics, electronic circuits, atomic physics, and nuclear physics. An individual program of experiments is arranged for each student in accordance with her interests and previous experience. Immediately after registration and not later than the end of the second day after the beginning of classes, registrants should consult the staff member about assignment to a laboratory section and the schedule of experiments.—J. Rainwater.

Prerequisite: Course W 3003 or W 3007, or permission of the instructor.

1 point.

One four-hour period weekly. Hours to be arranged by the instructor.

W 3083x, W 3083y. Electronics Laboratory.

Experiments in solid state electronics, with introductory lectures.—Staff.

Permission of the instructor required. Corequisite: Course W 3003 or W 3007.

Registration is limited to the capacity of the laboratory.

2 points.

M W F 1:00-4:00.

GRADUATE COURSES

The following G 4000 courses form an integral part of the undergraduate major program in Physics.

G 4003y. Lagrangian Mechanics.

Generalized coordinates; Lagrange's and Hamilton's equations with applications including rigid bodies; normal coordinate treatment of coupled systems.—Staff.

Prerequisites: Integral calculus and differential equations and W 3003, or equivalent.

3 points.

M W F 10:00.

G 4009x. Light.

Physical and geometrical optics.—Staff.

Prerequisites: General physics and integral calculus.

3 points.

M W F 10:00.

G 4013x. Thermodynamics.

General principles of thermodynamics; the three fundamental laws; definition of entropy and the thermodynamic potentials; simple application of thermodynamics; microscopic interpretation of thermodynamics.—Staff.

Prerequisite: Courses W 3003 and W 3007.

Corequisite: Course G 4015.

3 points.

Tu Th 2:40-3:55.

G 4015x, G 4016y. Atomic Physics and Introductory Quantum Mechanics.

Experimental basis of modern atomic physics; interpretation of atomic structures and radiation phenomena in terms of quantum theory. Elementary wave mechanics applied to simple atomic structures and to potential well and barrier problems. Atoms in applied fields and the interactions in many electron atoms treated by perturbation theory; theory of spin and angular momentum.—Staff.

Prerequisite: Courses C 1006, C 1007, C 1011 and C 1012, or their equivalents, and two additional terms of course work in intermediate or advanced physics.

3 points.

M W F 9:00.

G 4040y. Nuclear Physics.

Properties of nuclei, the two-body problem at low energies and nuclear forces, alpha radioactivity, beta decay, emission of electromagnetic radiation and selection rules, nuclear shell structure, phenomena associated with the passage of nuclear radiations through matter and methods of detection; high-energy accelerators, nuclear reactions, artificial radioactivity, neutrons, and nuclear fission.—Staff.

Prerequisite: Course G 4015 or the equivalent.

3 points.

Tu Th 11:00-12:15.

History and Development of Science W 3001x, W 3002y. The Art of Scientific Experiment.

Evolution of scientific experiment—its purpose, method, style and role in science, from antiquity to the early 20th century. Focus on the *creation* of scientific knowledge, viewed in contemporaneous light of both personal and social-cultural influences; assimilation of discovery into the body of science. Examples mainly from physical science. Illustrated by experimental demonstrations.—S. Devons.

Permission of the instructor required.

3 points.

W 4:00-6:00, plus one hour class discussion to be arranged.

Laboratory hours to be arranged.

ASTRONOMY COURSES

For descriptions see the Columbia College Bulletin.

C 1103x. Contents of the Universe.

L. Lucy.

3 points.

Lecture Tu Th 1:10-2:25.

Laboratory hours to be arranged.

Physics

C 1104y. Topics in Cosmology.

L. Lucy.

3 points.

Lecture Tu Th 1:10-2:25.

Laboratory hours to be arranged.

C 1203x. Introduction to Astrophysics.

K. Prendergast.

3 points.

M W 11:00-12:15.

C 3102y. Planetary Dynamics and Physics of the Solar System.

K. Prendergast.

3 points.

M W 11:00-12:15.

C 3997x, C 3998y. Seminar and Research Course.

Staff.

3 points.

Hours to be arranged.

W 3301y. Black Holes.

E. Scharlemann.

Offered in alternate years. Offered in 1981-1982.

3 points.

W 3302y. General Relativity, Cosmology, and Black Holes.

E Spiegel.

Offered in alternate years. Not offered in 1981-82.

3 points.

M W 2:40-3:55.

G 4201x. Basic Astronomical Data.

E. Scharlemann.

3 points.

Tu Th 1:10-2:25.

Astronomy-Geology V 1044x. Stars, Planets, and Life, I.

R. Jastrow.

4 points.

Lecture Tu Th 6:10-7:25.

Laboratory Tu or Th 3:00-5:50 or 7:25-10:15 p.m.

Astronomy-Geology V 1444x. Stars, Planets and Life, I.

Same as Course V 1044, but without laboratory.

R. Jastrow.

3 points.

Lecture Tu Th 6:10-7:25.

Astronomy-Geology V 1045y. Stars, Planets, and Life, II.

R. Jastrow.

Prerequisite: Quality work in Course 1044.

Enrollment limited to 20 students.

4 points.

Lecture Tu Th 6:00-7:25.

Laboratory Tu or Th 3:00-5:50 or 7:25-10:15 p.m.

Astronomy-Geology V 1445y. Stars, Planets, and Life, II.

Same as V 1045, but without laboratory.

R. Jastrow.

3 points.

Tu Th 6:00-7:25.

Political Science

Office: 402 Lehman Hall

Telephone: 280-2159

Professors

Demetrios Caraley (Chairman), Dennis Dalton, Peter Juviler

Visiting Professor

Samuel Hendel

Associate Professor

Richard M. Pious

Assistant Professors

Flora S. Davidson, Ester Fuchs, Debra Miller.

Instructor

Leslie J. Calman

Other officers of the University offering courses listed below:

Professors

Douglas A. Chalmers, Gerald L. Curtis, Julian H. Franklin, Charles V. Hamilton, Roger Hilsman, Robert Jervis, Giovanni Sartori, Warner R. Schilling, Alan F. Westin

Associate Professors

Thomas P. Bernstein, John Ruggie

Assistant Professors

Gerald B. Finch, Thomas A. Horne, James H. Mittleman, Glenda Rosenthal, Eileen P. Sullivan

Lecturer

Seweryn Bialer

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the five-year joint degree programs with the Columbia Graduate Program in Public Policy and Administration and with the School of International Affairs.

REQUIREMENTS FOR THE MAJOR

A student majoring in political science is required to take a minimum of nine semester courses from the Department's listed offerings, including

Political Science I

Dynamics of American Politics

One of the following courses

Political Science 2

Comparative Politics

Political Science W 3611

International Politics

Political Science 13, 14

Political Theory

Two colloquia or other courses having a research paper from among those courses designated by an asterisk (*); and

Two semesters of research seminar for the thesis (see below).

Political Science

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

In order to have the opportunity for independent specialized work in depth, and to explore more fully the techniques of scholarly investigation, **both majors and concentrators are required to write a senior essay** as part of the work for the required two semester research seminar (either Political Science 61-62, *Research Seminar*, or V 3711-V 3712, *Research Seminar in American Politics*.)

A student majoring in Urban Studies with a concentration in political science is required to take a minimum of six semester courses, including

Political Science 1

Political Science V 3313 *American Urban Politics*

Two from the following courses:

Political Science 22

The American Congress

Political Science 26

Problems in Civil Rights and Liberties

Political Science 27

Colloquium on the Content of American Politics

Political Science 28

Colloquium on Congressional Politics

Political Science 35

Colloquium-Workshop in Urban Administration and Management

Political Science V 3306

Political Economy of Cities

Political Science G 8202

Colloquium on Congress and Policymaking

Two semesters of research seminar for the thesis.

REQUIREMENTS FOR THE MINOR

A student minoring in political science is required to take a minimum of five semester courses, including Political Science 1.

COURSES OF INSTRUCTION

Courses listed under this heading may be taken without previous study of political science.

1x, 1y. Dynamics of American Politics.

Examination of the dynamics of the American political system at the national level including political participation, elections, political parties and national political institutions: the Presidency, the Congress and the Judiciary.—Staff.

Sign-up sheets for sections are posted outside 408 Lehman.

3 points.

x: Section I M W 11:00-12:15. R. Pious.

Section II M W 2:10-3:25. S. Hendel.

Section III Tu Th 10:35-11:50. F. Davidson.

y: M W 11:00-12:15. R. Pious.

2y. Comparative Politics.

Introduction to and critique of theories and concepts of comparative politics, such as power, authority, political development and political culture; theories and concepts applied comparatively to the study of authority, institutions,

conflict and change in the Soviet Union, Tanzania, Britain and Northern Ireland.—P. Juviler.

3 points.

Tu Th 10:35-11:50.

3x. Electoral Politics.

Electoral politics within the context of political participation and implications of participation for democratic theory. Political party politics, non-party electoral activity, the media, and other factors which influence voting behavior. Students are encouraged to participate in electoral campaign activity.—K. Yatrakis.

Not offered in 1981-82.

3 points.

Political Science

W 3311x. American Parties and Elections.

Party system and electoral process as sources of stability and change in the American political system. Impact of electoral change on regime institutions and policies; relation between radical movements and political parties; electoral legitimization of social, economic, and political inequality; limits of the electoral process as an instrument of political change. Historical as well as contemporary events.—E. Fuchs.

3 points.

Tu Th 9:10-10:25.

4y. Freshman Seminar in Government.

Intensive study of a topic to be selected by the instructor. Students learn methods and sources of political science and gain experience in discussion and writing.—Instructor to be announced.

Topic for Spring 1982: to be announced in November.

4 points.

Hours to be arranged in November.

7x. Modern Political Movements.

Dynamics of movement politics in the twentieth century. Factual and moral analysis; case studies of Bolshevism, Indian nationalism, Nazism, the New Left, and the women's movement.—D. Dalton and P. Juviler.

3 points.

Tu Th 10:35-11:50.

Voluntary, ungraded discussion sections: Tu or Th 12:10-1:00.

V 3313y. American Urban Politics.

Patterns of government and politics in America's large cities and suburbs. Urban socio-economic environment, influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, press, the general public, and federal and state governments; impact of urban government on ghetto and other urban problems.—E. Fuchs.

3 points.

M W 2:40-3:55.

W 3611x, W 3611y. International Politics.

Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems.

3 points.

x: Tu Th 2:40-3:55. D. Miller.

y: M W 2:40-3:55. R. Jervis.

12y. The United Nations in International Politics.

International organizations in the world political system. Experiences of the League of Nations and the United Nations in conflict

management and resolution. Response of the U.N. and other international and regional organizations to the challenge of interdependence.—D. Miller.

3 points.

M W 2:40-3:55.

13x, 14y. Political Theory.

Major political writings from Plato to the present. Comparison of basic ideas and concepts.

—D. Dalton.

Course 13 is prerequisite to Course 14.

3 points.

Tu Th 1:10-2:25.

SPECIALIZED COURSES

*45x. Colloquium on Statistical Analysis of Politics and Policy.

Descriptive and inferential statistics in analysis of problems in the political process and public policy; practical applications; introduction to the use of the computer in statistical analysis.—E. Fuchs.

Prerequisite: Course 1 and permission of the instructor.

Enrollment limited.

4 points.

Tu Th 2:40-3:55.

AMERICAN GOVERNMENT AND POLITICS

V 3306y. Political Economy of Cities.

The fiscal implications of metropolitanism: Survey of redistribution of people and jobs within the nation and its impact on the economic base and governmental performance; attention to sunbelt vs. snowbelt differences; introduction to concepts and techniques for analyzing regional and national economic and fiscal characteristics and their policy implications for central city governments.—E. Fuchs.

Prerequisite: V 3313 or equivalent.

Not offered in 1981-82.

3 points.

V 3316x. The American Presidency.

Growth of presidential power, creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus.—R. Pious.

Prerequisite: Course 1 or the equivalent.

3 points.

M W 2:40-3:55.

22y. The American Congress.

Dynamics, organization, and policy-making processes of the American Congress. Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another.—

Political Science

F. Davidson.

Prerequisite: Course 1 or the equivalent.

3 points.

Tu Th 10:35-11:50.

25x. The Judicial Process.

Introduction to the American judicial system; origins and strategies of litigation, factors which influence the hearing of cases by the Supreme Court, and controversies over judicial review and the commerce clause.—Instructor to be announced.

Prerequisite: Course 1 or a course in American history.

Not open to students who have taken Course C 3399.

Not offered in 1981-82.

3 points.

26y. Problems in Civil Rights and Liberties.

Political and legal context of current issues in freedom of speech and religion, racial discrimination, the right to privacy, and criminal law enforcement.—Instructor to be announced.

Prerequisite: Course 1.

3 points.

Tu Th 10:25-11:50.

W 3399x. The Supreme Court and American Politics.

Role of the judiciary and constitutional law in American politics; U.S. Supreme Court, civil liberties, civil rights, federalism, and economic and social regulations. Students write case studies of recent Supreme Court decisions.—A. Westin.

Prerequisite: Course 1 and junior standing.

Not open to students who have taken Course 25.

3 points.

M W 11:00-12:15.

*C 3400y. Colloquium on the Law and Politics of Civil Liberties.

Legal, political, interest-group, and psychological aspects of civil liberties and civil rights issues.—A. Westin.

Prerequisites: Junior or senior standing, a course in American government, and permission of the instructor.

Not open to students who have taken Course 26.

3 points.

M 11:00-12:15.

*27x. Colloquium on the Content of American Politics.

Readings, discussions and reports on changing cleavages and issues in American national politics over time including the relationship among political parties, interest groups, elections and public policy.—S. Hendel.

Prerequisites: Course 1 and permission of the instructor.

4 points.

W 10:00-11:50.

*31y. Colloquium on American Political Thought.

Readings on decisionmaking, policy analysis and the political setting of the administrative process. Students will simulate an Ad Hoc Cabinet Committee assigned to prepare a presidential program to deal with aspects of the foreign aid program involving hunger and malnutrition.—R. Pious.

4 points.

W 4:10-6:00.

*Urban Studies 35x. Colloquium-Workshop in Urban Administration and Management.

Processes of administration and management in urban organizations. Executive leadership, decision-making, bureaucracy, budgeting and personnel. Resources of New York City utilized to gain first hand experience of administrative and managerial processes through internships.—F. Davidson.

Prerequisite: Course 1 or V 3313 or the equivalent.

Enrollment limited to ca. 20 students.

4 points.

Tu 2:10-4:00.

G 4225y. National Economic Policy Making.

The relationship between government and the economy. Focus on taxes, expenditures, and fiscal policy-making.—R. Pious.

3 points.

M W 2:40-3:55.

G 4245y. Race and Ethnicity in American Politics.

Historical and contemporary roles of racial and ethnic groups; initiation, demands, leadership and organizational styles and orientation, benefits, and impact on structures and outputs of governance in the United States.—C. Hamilton.

Prerequisites: Course 1 or V 3313 and junior standing.

3 points.

W 11:00-12:50.

*G 8202y. Colloquium on Congress and Policy-making.

Role of Congress in national policymaking. Influence of committees, party leaderships, staffs, the President, interest groups, and constituencies; case studies of congressional policymaking.—D. Caraley.

Prerequisites: Course 1, junior standing and permission of the instructor.

Enrollment limited to 15 students.

3 points.

Th 2:10-4:00.

Political Science

FOREIGN GOVERNMENTS AND POLITICS

*20x. Colloquium on Communism and Revolutionary Change.

Nature, causes and consequences of revolution; approaches to revolution of the major types of communism in Europe, Asia, and Latin America (including Cuba); revisionism, polycentrism, and "peaceful roads to socialism" as exemplified by events in Chile and Eurocommunism.—L. Calman.

Prerequisites: Course 2, 7 or 21, or the equivalent. Permission of the instructor required.

3 points.

Th 2:10-4:00.

*21y. Colloquium on the Politics of Social Change in the U.S.S.R.

Soviet conception of human rights and authority; Stalinization and de-Stalinization; case studies of the rights, obligations, and behavior of Soviet citizens as producers and consumers, family members, participants in criminal justice, dissidents, etc., as aspects of the interaction between regime and society.—S. Hendel.

Prerequisites: Course 2 or 7, or other formal study of government.

3 points.

Th 2:10-4:00.

W 3502y. Political Change in the Third World.

Impact of the world market, multinational corporations, and colonialism on non-Western societies. Political issues arising from social and economic changes; political choices facing peasants, intellectuals, and ethnic minorities; strategies to overcome underdevelopment, including revolution and reform, critical analysis of theories of modernization, dependency, and historical materialism.—J. Mittelman.

3 points.

Tu Th 2:40-3:55.

W 3512x. Democratic Politics in Western Europe.

Democratic politics in Western Europe; political culture, governmental institutions, parties, pressure groups, policymaking in modern industrial societies, and political changes.—G. Rosenthal.

Prerequisite: Course 2.

3 points.

Tu Th 10:35-11:50.

W 3522y. Communist Political Systems.

Comparative politics applied to the study of Communist societies (with stress on the U.S.S.R. and China); theory and practice; political culture; political and economic institutions and modes of behavior; comparative stages of development and socio-political change.—Instructor to be announced.

Prerequisite: Course 2 and junior standing.
3 points.

Tu Th 2:40-3:55.

W 3018y. Comparative Authoritarian Systems.

Rise, structures, and collapses of authoritarian regimes in modernizing and industrialized countries, especially in Europe and Latin America; fascism, emergency dictatorships, and military developmentalism; interpretations and explanations from Marxist, developmentalist, and Liberal perspectives.—D. Chalmers.

Prerequisite: Course 2.

Offered in alternate years. Not offered in 1981-82.

3 points.

W 3620x. Chinese Politics.

Domestic and foreign policies of China and the relationship between them; contemporary Chinese politics, including elite conflict, role of ideology, and the great social transformations, with background information on Chinese political culture and pre-revolutionary responses to the challenges of imperialism and modernization.—T. Bernstein.

Prerequisite: Course 2.

3 points.

Tu Th 9:10-10:25.

W 3621x. Japanese Politics.

Introduction to contemporary Japanese politics and major foreign policy issues; issues of concern in the analysis of Western democratic policies in the Japanese context.—G. Curtis.

Prerequisite: Course 2.

3 points.

Tu 6:10-8:00 p.m. Discussion hour to be arranged.

W 4410y. Parliamentary and Presidential Political Systems.

Four systems in the Anglo-American tradition; the United Kingdom, Canada, Australia, and the United States; parliamentary and presidential institutions; sovereign, executive, and emergency prerogatives; representation, confidence, and accountability; cabinets, advisory systems, and legislative-executive relations; cross-fertilization and diffusion of institutional innovations.—R. Pious.

Prerequisite: Course 1 and junior standing.
Not offered in 1981-82.

3 points.

G 4461y. Latin American Politics.

Political change, authoritarianism, the state role in achieving equality and growth and other problems, with attention to a few major countries in the region.—D. Chalmers.

Prerequisite: Course 2.

3 points.

W 2:10-4:00.

Political Science

G 4487x. The Dynamics of Soviet Politics.

Marxism-Leninism in Soviet politics; role of the Communist Party in Soviet government and society; problems of industrialization, stages of development and political change; balance of political forces and pressures in the Soviet state.—S. Bialer.

Prerequisite: Course 2.

3 points.

Tu 9:10-10:50.

POLITICAL THEORY

*16y. Colloquium on Personality and Politics.

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders.—F. Davidson.

Permission of the instructor required.

Enrollment limited to 16 students. Application form must be submitted to the instructor in advance for acceptance into the course.

4 points.

Tu 2:10-4:00.

*24y. Colloquium on Asian Political Thought.

Comparative analysis of Asian national experiences and political ideas in India and China.—D. Dalton.

Prerequisite: Course 2 or permission of the instructor.

Enrollment limited to 20 students.

4 points.

Th 11:00-12:50.

*33y. Colloquium on Concepts of Political Theory.

Relationship between political theory and political science; selected theoretical concepts and problems within the context of classical and modern theorists, and their pertinence, utility, and limitations for the understanding of contemporary domestic and international politics.—L. Calman.

Permission of the instructor required.

4 points.

Tu 2:10-4:00.

W 3403x. Liberal Democratic Theory.

Development of liberal democratic theory in England and the United States during the late nineteenth and twentieth centuries; change from laissez-faire to welfare state; changing conceptions of liberty, equality, and justice, and of the appropriate organization role of government; criticisms of liberal democratic theory; J.S. Mill, Hobhouse, Green, J. Dewey, Dahl, Rawls, Hegel, Marx, Michels, Mannheim, Freud.—E. Sullivan.

3 points.

Tu Th 2:40-3:55.

W 3404y. Marxism and Its Critics.

Marx's social and political thought, revisionists and fundamental critics, and selected contemporary approaches to Marxist theory. Marx, Bernstein, Lenin, Sorel, Mannheim, Freud, Marcuse, Sartre, and others.—T. Horne.

3 points.

Tu Th 4:10-5:25.

W 3411x. Foundations of Western Political Thought: From the Greek Polis to the Formation of the Modern State.

Leading political theorists in their historical contexts: Plato, Aristotle, Polybius, Cicero, St. Augustine, St. Thomas, Machiavelli, Luther, Calvin, the Monarchomachs, and Bodin.—J. Franklin.

3 points.

Tu Th 11:00-12:15.

W 3412y. Modern Political Thought: From the Seventeenth Century to the Present.

Leading political theorists in their historical contexts: Harrington, Hobbes, Locke, Hume, Montesquieu, Rousseau, J. S. Mill, Hegel, Marx.—E. Sullivan.

3 points.

Tu Th 10:35-11:50.

W 4620y. Democracy and its Critics.

Democratic theory and major themes of controversy.—G. Sartori.

3 points.

Tu 11:00-12:50.

INTERNATIONAL RELATIONS AND FOREIGN POLICY

*18x. Colloquium on Problems in International Politics.

Readings, discussions, and presentations on selected problems in international politics. Topic for 1981: Problems of International Political Economy: relationships among individual capitalist states, as well as relationships between industrialized and developing countries; political implications of problems such as international trade, monetary relations, investment, and technology transfer.—D. Miller.

Prerequisite: Course W 3611 and permission of the instructor.

4 points.

Tu 2:10-4:00.

W 3612y. International Politics II: Advanced Topics in International Politics.

Selected topics in international relations. The content of the course varies from year to year, but topics considered generally include nationalism, imperialism, integration, arms racing, deterrence, and world systematic change.—J. Ruggie.

Political Science

Prerequisite: Course W 3611.

3 points.

M W 2:40-3:55.

G 4820y. Politics of International Economic Relations.

The politics of international economic relations and problems. Contemporary approaches to the study of international political economy; analysis of relations among advanced, capitalist states and among industrialized and developing countries. Major issues include trade and monetary relations, the multinational corporation, oil and debt.—D. Miller.

3 points.

Tu 9:00-10:50.

C 3655x. American Strategies in World Politics.

Major revolutions in American foreign policy; World Wars I and II, and the response to nuclear weapons.—W. Schilling.

Prerequisite: junior standing.

3 points.

M W 11:00-12:15.

W 3656y. The Politics of Policy Making in Defense and Foreign Affairs.

Political process by which foreign and defense policy is made in the United States, including the roles of the President, Congress, State Department, CIA, the military, the press, interest groups, the attentive public, and the electorate; conceptual models of the politics of policy making.—R. Hilsman.

Prerequisite: Junior standing.

3 points.

M 4:10-6:00. Discussion hours to be arranged.

W 3801y. Western Europe Today: The Dilemma of Political Interdependence.

Major features and problems of Western Europe interdependence; international and external dimension; political, diplomatic and military aspects; domestic and economic issues as they relate directly to the problems discussed. Case material is confined to West Germany, Great Britain, France, and Italy.—Instructor to be announced.

3 points.

Tu 4:10-6:00.

COURSES FOR MAJORS AND CONCENTRATORS ONLY

Admission to particular sections of the senior seminar is limited. During Spring preregistration students must obtain departmental approval for the section desired in the senior seminar.

G 4910x. Principles of Quantitative Political Research.

Introduction to statistical analysis and data processing. Principles of statistical inference and the logic of hypothesis testing.—G. Finch.

A written report is required.

Not offered in 1981-82.

3 points.

G 4911y. Analysis of Political Data.

Applications of multivariate statistical techniques to political data. Practical questions of research and data processing.—G. Finch.

Prerequisite: Course G 4910 or permission of the instructor.

A written report is required.

Not offered in 1981-82.

3 points.

V 3711x-V 3712y. Research Seminar in American Politics.

Discussions, conferences, and the writing of a senior essay on selected topics of American public policy and politics.—Staff.

4 points.

Section I W 4:10-6:00. D. Caraley.

Section II W 4:10-6:00. E. Fuchs.

Section III x: Tu 2:10-4:00. Instructor to be announced.

y: M 11:00-12:50. C. Hamilton.

Section IV Th 2:10-4:00. Instructor to be announced.

Section V Th 4:10-6:00. F. Davidson.

Section VI x: Th 11:00-12:50. R. Alford.

y: M 11:00-12:50. A. Westin.

Section VII W 4:10-6:00. K. Yannakis.

61x-62y. Research Seminar.

Discussion and conferences on the researching and writing of the senior essay.—Staff.

4 points.

Section I Th 4:10-6:00. P. Juviler.

Section II Tu 4:10-6:00. D. Dalton.

Section III Tu 4:10-6:00. D. Miller.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the Bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and the School of International Affairs.

Psychology

Office: 415 Milbank Hall

Telephone: 280-2069

Professors

Lila Ghent Braine, Richard P. Youtz¹

Visiting Professor

Thomas Perera

Associate Professors

Barbara S. Schmitter, Rae Silver (Chairman)

Adjunct Associate Professor

Donald E. Hutchings

Assistant Professors

Lawrence Aber, Peter Balsam, Julie Doron, Stanley E. Nyberg, Robert Remez, Christina L. Williams

Adjunct Assistant Professors

Fernando Alvarez, Howard Andrews, Wendy McKenna, Shanna Richman, Barbara Schechter, Sandra F. Stingle

¹Emeritus and Special Lecturer

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babblings of infants to creative intellectual behavior, from understanding sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development, memory, sexual and parental behavior, animal learning, leadership, and intimate violence.

Common to all areas of psychology is a concern with adequate and appropriate methodology. The student will be exposed, therefore, to many psychological facts and to the methods of their discovery through lecture, laboratory, field courses, and various other offerings.

Opportunities are available for supervised research, teaching, and field experiences. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services provide a different sort of direct contact with the raw material of psychology, as do Teaching Apprentice Seminars.

The department sponsors a Psychology Club, which, among other activities, publishes the yearly *Barnard Journal of Psychology*.

Psychology as a major is a good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and exposure to material the student may never encounter formally again.

Students should preregister for courses by signing up in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of \$15 is charged for each laboratory course: 5, 8, 17, 27, 30, 36, and 56.

Students interested in Biopsychology should consult page

REQUIREMENTS FOR THE MAJOR

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

Psychology

Eight courses in psychology (of which two must be lab courses) and three courses in related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College.

Psychology 1	<i>Introduction to Psychology</i> (prerequisite for further psychology courses)
Psychology 9	<i>Statistics</i> (preferably in the sophomore year)
One course chosen from:	
Psychology 5	<i>Psychology of Learning</i>
Psychology 30 or 32	<i>Human Learning and Memory</i>
One course chosen from:	
Psychology 25	<i>Psychology of Personality</i>
Psychology 36 or 38	<i>Social Psychology</i>
Psychology 41	<i>Abnormal Psychology</i>

In choosing her four electives, a student should try to achieve a balance in her training by taking at least one course from each of the following categories:

Developmental, Social, Clinical: 25, 27 or 29, 36 or 38, 41, 42, 51, 58, 71, 72, 73

Methodology and Research: 56, 68, W 4107, 91-92, 99

Physiological, Perception, Learning: 5, 8 or 10, 17, or 19, 30 or 32, 54, 60, 64, 69, 74

Only one of the Teaching Apprentice Seminars (49 and 50) may be used for the major; both may be taken for credit, however.

The three required courses in related disciplines should be distributed as follows: a one-year laboratory course sequence in either biology, chemistry, or physics; a course from one of the cognate disciplines: anthropology, linguistics, sociology, philosophy, economics.

The eleven required courses must be taken for a letter grade; the grade must be C- or better in all psychology courses. Beginning with the class of 1982, the grade must be C- or better in all courses required for the major.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology 91-92, *Senior Research Seminar*.

When in doubt, the student should consult with her major adviser, whom she should select when she decides to major in psychology, and who will be her chief academic adviser during her last years. The student may select the appropriate adviser in consultation with the administrative assistant or chairman.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology 1, 9, and one laboratory course. Two additional electives, excluding Psychology 49, 50, 65-66, 91-92, and 99, are required. These electives may be selected from the Psychology Department course offerings. Three of the five psychology courses must be taken at Barnard.

COURSES OF INSTRUCTION

INTRODUCTORY COURSE

1x, 1y. *Introduction to Psychology*.

Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures, exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.)—Staff.

This course is prerequisite for all other Psychology courses.

Preregistration in the department is required. Enrollment is limited to 45 students per section. 3 points.

*x: Section I Tu Th 1:10-2:25. D. Hutchings.
Section II M W F 10:00. J. Doron.
Section III M W F 10:00. F. Alvarez.
Section IV M W F 11:00. Instructor to be announced.*

Psychology

Section V M W F 1:00. R. Remez.
Section VI Tu Th 9:10-10:25. S. Richman.
Section VII Tu Th 1:10-2:25. T. Perera.
y: Section I Tu Th 9:10-10:25. S. Richman.
Section II M W F 11:00. Instructor to be announced.
Section III M W F 10:00. P. Balsam.
Section IV Tu Th 1:10-2:25. D. Hutchings.
Section V M W 2:40-3:55. W. McKenna.

LOWER LEVEL COURSES

5x. Psychology of Learning.

Basic methods, results and theory in experimental analysis of behavior. Operant and classical conditioning, and application of these procedures to analysis of behavior in a variety of species, including humans. Laboratory consists primarily of experiments using rats as subjects.—P. Balsam and assistants.

Prerequisite: Course 1.

Enrollment limited to 60 students.

4½ points.

Lecture Tu Th 11:00-12:15. One hour reading evaluation to be arranged.

Laboratory Tu, W or Th 1:10-4:00.

8y. Perception.

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings.—R. Remez and assistants.

Prerequisite: Course 1 or permission of the instructor.

4½ points.

Lecture M W 11:00-12:15.

Laboratory M or Tu 1:10-4:00.

9x, 9y. Statistics.

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments.

Prerequisite: Course 1 or permission of the instructors.

Enrollment limited to 35 students per section.

4 points.

x: Section I M W F 9:00. H. Andrews.

Recitation M 10:00-12:00 or Tu 10:30-12:30.

Section II M W F 1:00. S. Nyberg.

Recitation Th 11:00-12:50 or F 2:10-3:55.

y: M W F 9:00. H. Andrews.

Recitation M 10:00-12:00 or Tu 10:30-12:30.

10y. Perception.

Same as Course 8, but without the laboratory.—R. Remez and assistants.

Prerequisite: Course 1 or permission of the instructor.

3 points.

M W 11:00-12:15.

17x. Physiological Psychology.

An introduction to the physiological bases of behavior: organization, connections and functions of the nervous system; neural bases of sensory processing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning and memory.—C. Williams and assistants.

Prerequisite: Course 1.

Enrollment limited to 40 students.

4½ points.

Lecture M W 1:10-2:25.

Laboratory W 2:30-5:30 or Th 1:10-4:00.

19x. Physiological Psychology.

Same as Course 17x, but without laboratory.—C. Williams and assistants.

Prerequisite: Course 1.

Enrollment limited to 20 students.

3 points.

M W 1:10-2:25.

25x. Psychology of Personality.

Survey of the area, major theorists; research utilizing personality variables; implicit and explicit personality theories of various types of people; articulation of the dialectic between explanations as a function of personality and explanations as a function of situational determinants.—F. Alvarez.

Prerequisite: Course 1 or permission of the instructor.

3 points.

M W F 11:00.

27x, 27y. Developmental Psychology.

Cognitive, linguistic, perceptual, motor, social, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered.—x: L. Aber and assistants; y: B. Schecter and assistants.

Prerequisite: Course 1 or permission of the instructor.

Enrollment limited to 48 students.

4½ points.

Lecture M W 1:10-2:25.

Laboratory M 2:30-5:30, Tu 2:10-5:00.

29x, 29y Developmental Psychology.

Same as Course 27, but without laboratory.—x: L. Aber; y: B. Schecter.

Psychology

Prerequisite: Course 1 or permission of the instructor.
Enrollment limited to 20 students.
3 points.
M W 1:10-2:25.

30y. Human Learning and Memory.
Survey of contemporary experimental approaches to the understanding of human learning and memory; historical overview, the acquisition of information, theories of forgetting, transfer of learning, and models of semantic memory. The laboratory consists of experiments and demonstrations related to the above topics.—S. Nyberg and assistants.
Prerequisite: Course 1 or permission of the instructor.
Enrollment limited to 30 students.
4½ points.
Lecture M W F 11:00.
Laboratory W or Th 1:10-4:00.

32y. Human Learning and Memory.
Same as Course 32, but without laboratory.—S. Nyberg and assistants.
Prerequisite: Course 1 or permission of the instructor.
3 points.
M W F 11:00.

34x. Educational Psychology.
Participative classroom model; major theories and issues in human psychological development and learning fundamental to the educative process; implications and applications of underlying psychological and educational assumptions in elementary and secondary classrooms.—Instructor to be announced.
Prerequisite: Course 1 or permission of the instructor.
Research groups meet every third week with instructor and/or assistant.
3 points.
M W F 9:00.

36y. Social Psychology.
Human behavior considered in terms of interpersonal activities; person perception, attitude change, interpersonal attraction, aggression, altruism, group dynamics, social exchange; contributions of laboratory and field research.—J. Doron and assistants.
Prerequisite: Course 1 or permission of the instructor.
Enrollment limited to 25 students.
4½ points.
Lecture Tu Th 9:10-10:25.
Laboratory W or Th 1:10-4:00.

38y. Social Psychology.
Same as Course 36, but without laboratory.—J. Doron and assistants.
Prerequisite: Course 1 or permission of the instructor.
Enrollment limited to 50 students.
3 points.
Tu Th 9:10-10:25.

MIDDLE LEVEL COURSES

41x, 41y. Abnormal Psychology. (formerly 21)
Theories and explanations of behavior termed neurotic and psychotic, with research bearing on their adequacy and validity, research on characteristics of persons who have been placed in various diagnostic categories; theories of therapy, with research bearing on the outcome of therapy.—L. Aber.
Open to juniors and seniors who have had Course 1.
3 points.
Tu Th 9:10-10:25.

42y. Child-Rearing: A Survey of Alternative Practices.
Theories, methods, and implications of child-rearing practices examined through studies of parent-child relationships, varied family structures, and the influence of temperament, gender, birth order, and values.—Instructor to be announced.
Prerequisite: Course 1 or permission of the instructor, Course 27 desirable.
Enrollment limited to 30 students.
Field work is required.
Not offered in 1981-82.
3 points.

49x. Teaching Apprentice Seminar (Learning).
Intensive analysis of principles of learning covered in Course 5. In addition to supplementary materials, students read the material assigned to Course 5 students, prepare Reading Evaluation Forms, and demonstrate superior comprehension of the subject matter. Individual work with Course 5 students.—P. Balsam.
Prerequisite: Course 5 and permission of the instructor.
Not offered in 1981-82.
3 points.

50y. Teaching Apprentice Seminar (Introductory).
Intensive analysis of areas covered in Course 1. In addition to supplementary materials, students read the material assigned to Course 1 students, demonstrate superior comprehension of the material, and are instructed in the techniques of conducting reading evaluations. Individual work with Course 1 students.—P. Balsam.

Psychology

Open to juniors and seniors with permission of the instructor.

Not offered in 1981-82.

3 points.

51x. Organizational Psychology.

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence and authority, leadership, cooperation and conflict, decision making, and communications.—J. Larson.

Prerequisite: Course 1.

Enrollment limited to 45 students.

3 points.

M W F 10:00.

54x. Hormones and Reproductive Behavior. (formerly 18)

Biological basis of parental and sexual behavior from a comparative perspective. Complex relations among genetic, hormonal, environmental, and experiential factors in mediating sexual, parental, emotional, and feeding behavior. Aspects of biology and physiology necessary to understand those behavioral processes are covered in class and are **not** prerequisites.—R. Silver.

Prerequisite: Course 1 or Biology 1 and 2.

Enrollment limited to 45 students.

3 points.

Tu Th 11:00-12:15.

56y. Psychological Measurement. (formerly 12)

Introduction to test theory, including test construction, standardization, reliability, validity, and item analysis. Other topics include: use of psychological tests in assessing intelligence, abilities, aptitudes, and personality; application of psychological tests in educational assessment and employee selection; legal issues in the use of psychological testing; unfair discrimination.—Instructor to be announced.

Prerequisite: Course 1.

4½ points.

Lecture M W F 10:00.

Laboratory W 2:00-5:00.

UPPER LEVEL COURSES

58x. Human Motivation.

Empirical study of human motivation with emphasis on motives in fantasy, action and society. Surveys different approaches to the study of human motives and their scientific status. Discusses the development of motives in childhood, their behavioral manifestations and societal manifestations. Particular emphasis is

given to need for achievement, need for power, need for affiliation, fear of failure, fear of success.—J. Fleming.

Prerequisite: Course 1.

3 points.

Tu Th 1:10-2:25.

60x. Cognitive Psychology. (formerly 40)

Selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Historical antecedents of current questions and research techniques. Perception, episodic and semantic memory, psycholinguistics, and problem solving.—S. Nyberg.

Prerequisites: 3 psychology courses or permission of the instructor.

Enrollment limited to 15 students.

3 points.

M W 11:00-12:15.

64x. Perception and Language.

Psychological investigations of spoken communication from listener's perspective. Topics include perception of the sounds of speech and the apprehension of meaning from words and utterances; the perceptual basis for rhyme and rhythm in speech; and the natural history of vocal communication.—R. Remez.

Prerequisites: Course 1 and one of the following: 5, 8, 17, 27, 30, or equivalent.

Enrollment limited to 20 students.

Offered in alternate years. Offered in 1981-82.
3 points.

M W 2:40-3:55.

65x, 66y. Field Work and Research Seminar: Barnard Toddler Center. (formerly 45-46)

The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical psychology. Students assist one morning a week at the Center, carry out individual research projects, and participate in research. There is a 2-hour weekly seminar.—L. Aber.

Prerequisites: Course 27 and permission of the instructor. Permission should be requested in the spring of the year preceding registration.

Enrollment limited to ca. 8 students.

3 points.

Tu 12:00-2:00.

67y. History and Systems of Psychology.

Development of the discipline of psychology examined in the context of significant events occurring in other fields (philosophy, other sciences) and in society. Major schools of psychology: Structuralism, Functionalism, Behaviorism, Gestalt psychology and Psychoanalytic theory.—L. Braine.

Psychology

Open to juniors and seniors who have had Course 1 and two other courses in psychology or permission of the instructor.

3 points.

Tu Th 2:40-3:55.

63x, 68y. The Design of Experiments.

Research reports studied through nonstatistical analysis of procedures and justifiable conclusions. Research stages include: speculation, measurement, observed relation, experiment, and theory construction; applications to current publications. Each student writes a term paper analyzing five experimental research reports in an area of her interest.—R. Youtz.

Prerequisite: Course 1.

Enrollment limited to 10 students.

3 points.

Tu Th 9:10-10:25.

69y. Developmental Psychobiology.

A discussion of the inherent and acquired factors in the organization of basic behavioral processes: mechanisms underlying anatomical and functional development of the nervous system, prenatal and postnatal environmental influences on behavior, development of perception and response mechanisms, and analyses of the development of motivated behaviors. (e.g., feeding, sex, learning).—C. Williams.

Prerequisites: Course 1 and one other course in biology or psychology.

Enrollment limited to 20 students.

Offered in alternate years. Offered in 1981-82.

3 points.

Tu Th 10:35-11:50.

SEMINARS

70x, 70y. Special Topics.

x: I. Psychological Analysis of Racism.

Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white relations. Psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper.

Prerequisite: Course 1 and permission of the instructor.

Enrollment limited to 20 students.

Not offered in 1981-82.

4 points.

y: II. Psychological Aspects of Human Sexuality.

Survey of research on physiological and anatomical factors important to human

sexual behavior, with emphasis on a critical evaluation of theory and research on psychological variables, social and cultural variables within which sexual behavior occurs. Topics include: childhood sexuality and sexual socialization, sexual function and dysfunction and sex therapies; sexual identity; sexuality and aging; sex and health; variant forms of sexual behavior; attitudes toward sexuality; sex and the law.—W. McKenna.

Prerequisite: Course 1.

Offered in 1981-82 only.

3 points.

M W 1:10-2:25.

71x. Psychology and Women.

Selected topics relevant to the scientific understanding of women's behavior and experience; sex differences in personality and abilities; development of sex differences; biological, psychodynamic and social learning theories, psychological aspects of special female experiences (e.g., menstruation, childbirth, abortion); women and therapy; women at work; and the sociology of psychology as it affects women.—J. Doron.

Prerequisites: Course 1 and two other psychology courses, and junior or senior standing.

Enrollment limited to ca. 20 students.

4 points.

Tu 2:10-4:00.

72y. Topics in Developmental Psychology.

Selected topics, such as prenatal and postnatal environments as factors in early development, perceptual development, Piagetian theory and current extensions of it, family structures and alternative rearing practices, socialization into sex roles.—L. Braine.

Prerequisites: Courses 1 and 27 or the equivalents.

Enrollment limited to 15 students.

Not offered in 1981-82.

4 points.

73x. Field Work in Psychological Services.

Supervised field work applying psychological principles in clinical, educational, medical, and other institutional settings. Seminar discussion of theoretical approaches to clinical problems and case materials.—S. Stingle.

Permission of the instructor required in the spring of the previous year.

Enrollment limited to 12 advanced students: seniors given priority.

Field work is required—six to eight hours per week.

4 points.

Tu 10:00-12:00 plus supervision to be arranged.

74y. Theories of Learning. (formerly 16)

Comparative study of major accounts of learning processes, including behavioral, cognitive, and biological theories. Evaluation of qualitative and quantitative models and their logical and empirical validity.—P. Balsam.

Prerequisites: Course 5 and junior or senior standing.

Enrollment limited to 15 students.

Offered in alternate years. Not offered in 1981-82.

4 points.

W 2:30-5:00.

W 4107y. Applications of Experimental Psychology.

Actual and potential applications of basic research in many areas of psychology. Traditional approaches to clinical situations; alternative experimental approaches to therapy, institutional design, and social planning; clinical assessment, behavior modification, self-control, creativity, law, education, and the ethics of social control.—P. Balsam.

Prerequisites: Learning course and permission of the instructor.

Enrollment limited to 15 students.

Offered every three years. Offered in 1981-1982.

3 points.

Tu 2:30-4:40.

91x-92y. Senior Research Seminar.

Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination.—C. Williams.

Open to eight senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor.

Prerequisites: Course 9, a minimum of five other psychology courses must be completed and permission of the instructor.

4 points.

Hours to be arranged.

99x, 99y. Individual Projects.

Research projects planned in consultation with members of the department.—Staff.

Open to majors on written permission of the department member who will supervise the project.

4 points.

Hours to be arranged.

Religion

Office: 219 Milbank Hall

Telephone: 280-5419, 5418

Professors

Theodor H. Gaster¹, Elaine M. Pagels

Associate Professor

Alan Segal (Chairman)

Assistant Professors

Joel Brereton, Marilyn Harran

Other officers of the University offering courses listed below:

Professors

Gillian Lindt, James A. Martin, Jr., Robert Somerville, Alex Wayman

Adjunct Professor

David Weiss-Hallvni

Associate Professor

Wayne L. Proudfoot

Assistant Professors

Peter J. Awn², Arnold M. Eisen³, Paul R. Valliere, Paul Watt

¹Emeritus and Special Lecturer

²Absent on leave, 1981-82

³Absent on leave, Spring Term

The study of religion at Barnard offers exploration of the literature and traditions of major world religions—Buddhism, Christianity, Hinduism, Islam, and Judaism. The student majoring in Religion may select either to focus on one of these, or to engage in comparative study of religions. In either case, she will discover various approaches to the understanding of religion, including literary, psychological, anthropological, historical, and sociological approaches.

The student with a degree in religion may undertake graduate and professional studies in religion, literature, and history; she may also enter upon careers ranging from medicine, clinical psychology, various forms of ministry and social service, to creative writing, art, education, journalism, and film, where the value of an understanding of religion is increasingly being recognized.

The Department of Religion at Barnard cooperates with the Columbia department in order to offer to Barnard and Columbia students a full crosslisted range of courses. Students are encouraged to meet often with faculty, as well as with other majors from Barnard and Columbia.

The Jewish Theological Seminary of America and Union Theological Seminary are located within one block of Barnard; students are encouraged to use the resources they offer.

All courses, except those limited to majors, satisfy the College's distribution requirements. Those designated as courses in the history of religion (i.e., History of Judaism) satisfy requirements in Category 4 of the distribution requirements; all others satisfy those in Category 3.

REQUIREMENTS FOR THE MAJOR

Every major is expected to have some knowledge of different religious traditions. The student's program should be designed in consultation with her adviser.

Religion

Ten courses are required for the major, including

One of the introductory courses, i.e.

V 1101	<i>Introduction to the Study of Western Religion</i>
V 1102	<i>Introduction to the Study of Eastern Religion</i>
V 1001	<i>Major Topics in the Study of Religion</i>

Two courses in the Traditions, i.e.

V 2607	<i>Buddhism</i>
V 2610	<i>Christianity</i>
V 2600	<i>Hinduism</i>
V 2630	<i>Islam</i>
V 2620	<i>Judaism</i>

Major's Colloquium (taken in the senior year);

One course taken as a seminar, colloquium, or guided reading; and

Five other courses in religion (one or two may be courses related to religion in other departments, i.e., History of the Jews in Europe, East Asian Art, Greek Mythology).

Students majoring in religion are required to prepare a substantial research paper or essay in consultation with a member of the department. The essay may have its origin in a course or seminar, or may be written in connection with guided reading or research (V 3901-V 3902).

REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses, including:

One of the introductory courses (i.e. Courses V 1101, V 1102, V 1001);

Two courses selected from the Traditions; and

One course taken as a seminar, colloquium, or guided reading.

The Department also cooperates with related programs such as Ancient Studies, Oriental Studies, Jewish Studies, and with other departments, to arrange combined, double, joint, and special majors. These arrangements are made in consultation with the chairman.

COURSES OF INSTRUCTION

Courses offered by other departments and the graduate program, but integral to the study of religion are listed here only by title. For a complete description, please consult the appropriate bulletin.

INTRODUCTORY COURSES

V 1001x, V 1001y. Major Topics in the Study of Religion.

Introduction to theory and practice of religion, East and West, e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization.—Staff.

3 points.

x: M W 6:10-7:25.

y: Tu Th 1:10-2:25.

V 1101x, V 1101y; V 1102x, V 1102y. Introduction to the Study of Religion.

Phenomenology of religious experience and historical forms of religious life; presuppositions, data and documents of religions of East and West. V 1101: religions of the West. V 1102: religions of the East.—Staff.

Students may begin their study of religion with either course.

3 points.

V 1101x M W F 10:00. E. Pagels.

V 1101y Tu Th 9:10-10:25. P. Valliere.

V 1102x Tu Th 6:10-7:25. Instructor to be announced.

V 1102y M W F 11:00. J. Brereton.

Religion

THE TRADITIONS

V 2607y. Buddhism. (formerly V 3607)

Chronological and phenomenological survey of the development of Buddhism in India from Gautama and the original Buddhism to Hinayana sectarianism; Mahayana, and Vajrayana; institutions, sects, cults, meditation and spirituality, philosophy.—Instructor to be announced.

3 points.

Tu Th 10:35-11:50.

V 2610x. Christianity.

Survey of Christianity from beginnings through the Reformation.—P. Valliere.

3 points.

Tu Th 10:35-11:50.

V 2600x. Hinduism. (formerly V 3600)

Origin and development of central themes of traditional Hinduism; basic religious literature and its relation to Indian culture. Readings include original sources in translation.—J. Brereton.

3 points.

M W 1:10-2:25.

Islam-Religion V 2630x. Islam. (formerly V 3630)

Survey of Islamic institutions, ideas, and spirituality, their origin and development in formative and classical periods and their continued evolution in a variety of cultural settings.

Instructor to be announced.

3 points.

M W 11:00-12:15.

V 2620x. Judaism.

Historical overview of Jewish belief and practice as these have crystallized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations.—A. Eisen.

3 points.

M W 11:00-12:15.

INTERMEDIATE COURSES

EASTERN RELIGIONS

V 3602y. Classical Texts in Eastern Religion.

Topic for 1981-1982: ancient Indian mysticism; readings from sources for Indian mysticism; *Rigveda*, *Brahmanas*, and *Upanishads*.—J. Brereton.

Offered in alternate years. Not offered in 1981-1982.

3 points.

V 3608y. Buddhism of Tibet, China and Japan.

Historical and phenomenological study of Buddhism in the Far East; confrontation with indigenous traditions and cultural assimilation; sects and schools; institutions; Buddhism and the state; philosophy; new forms of spirituality and redefinition of the "Holy Man."—Instructor to be announced.

3 points.

M W 2:40-3:55.

V 3611x. Chinese Religious Thought.

Native religious and philosophical movements and Buddhist developments in China.—Instructor to be announced.

Not offered in 1981-82.

3 points.

V 3613x. Japanese Religious Thought.

Shinto: myths and cult, Shrine Shinto and popular Shinto. Japanese Buddhism: origins and adaptation, Tendai, Shingon, Jodo pietism and Honen, Nichiren, Zen, Confucianism. Folk religion; religion and the arts; encounter with Christianity; modern movements in Japanese religion.

3 points.

M W 2:40-3:55

Middle East W 3010x. History of Astrology in the Ancient and Classical World.

Role of astrology in the development of astronomy; calendar systems of the ancient Orient; origin of zodiac division; deification of planets and stellar myth; influence of astrology in Egypt, Babylon, China, Greece, Rome, Iran, and India.—A. Wayman.

3 points.

Tu Th 2:40-3:55.

Indic-Religion G 4301y. Hindu and Buddhist Tantrism.

Lectures and supervised essays. The Indian background, fundamental theory, similarities and divergences of Tantric schools.—A. Wayman.

Offered in alternate years. Offered in 1981-1982.

3 points.

W 11:00-12:50.

Indic-Religion G 4335x. History and Doctrine of Indian Buddhism.

Historical sketch of the rise, impact, and decline of Indian Buddhism, chief shared or disputed doctrines of Buddhist sects; the canons, bibliographical survey, and introduction to the world of Buddhist scholarship.—A. Wayman.

Offered in alternate years. Offered in 1981-1982.

3 points.

W 11:00-12:50.

Indic-Religion G 4340x. The Vedic Tradition.

Survey of the chief features of the four Vedas, the *Brahmanas*, and the *Upanishads* of India;

the Vedic sacrifice, the opponents of Vedism, and the beginning of Hinduism.—A. Wayman. *Offered in alternate years. Not offered in 1981-1982.*

3 points.

Indic-Religion G 4454y. Indian Philosophy. Historical survey of Indian philosophy, including Vedic philosophical fragments, the six traditional schools, heterodox system, and aesthetic theory.—A. Wayman.

Not offered in 1981-1982.

3 points.

Iranian-Religion W 4703x-W 4704y. Religions and Philosophies of Ancient Iran.

Either term may be taken separately. W 4703: religious background of the Iranians, Zarathustra's religion, the Sasanid state culture. W 4704: Zurvanism, Manichaeism, Mithraism, Mazdakism.—Instructor to be announced.

3 points.

Hours to be arranged.

Oriental Studies-Religion W 4399x-W 4400y. Colloquium on Major Texts of the Oriental Traditions in Religion, Ethics, Social Thought, and Literature.

Readings in translation. Fall semester: Koran, Islamic philosophy and theology, Ibn Khaldun, Sufi poetry, the *Upanishads*, Buddhist sutras, *Bhagavad Gita* Sankara, Indian epics and drama; Spring semester: *Analects* of Confucius, Lao Tzu, Mencius, *Lotus Sutra*, Zen texts, *Dream of the Red Chamber*, *Tale of Genji*, and Nō plays. Ethical and religious issues and their characteristic expression in diverse cultural traditions through a variety of literary forms.—W.T. deBary and staff.

Knowledge of the original language not required.

3 points.

M 3:10-5:00, W 3:00-4:00.

WESTERN RELIGIONS

Judaism

V 3201x. Introduction to the Hebrew Bible. Introduction to the literature of ancient Israel against the background of the ancient Near East.—A. Segal.

3 points.

M W 1:10-2:25.

V 3210x. Judaism during the Time of Jesus. An introduction to the Hellenistic period in Jewish history with emphasis on sectarian movements and the emergence of rabbinic Judaism and Christianity as the two dominant religious movements of the West.—A. Segal.

3 points.

M W 4:10-5:25.

V 3301x. Religion and Society in Ancient Israel and the Post-Exilic Community.

Development of ancient Israelite religion and society in the Near East and its transformation into Judaism. Religious development will be treated within its historical context. Religion in the patriarchal period, Biblical monotheism, prophecy, popular religion, organized religious institutions, scriptural religion; origin of the synagogue and survival of the temple cult into late antiquity. Biblical and extra-Biblical texts read in the original or in translation.

Not offered in 1981-1982.

3 points.

W 4302x. Religion and Society in the Period of the Mishnah and Talmud. (formerly V 3302)

Critical survey of Jewish beliefs, practices, and institutions in late antiquity and the early medieval period. Primary sources read in original or in translation.—A. Segal.

Not offered in 1981-1982.

3 points.

V 3303y. Judaism in the European Middle Ages and the Renaissance.

Adaptation of Jewish religion to the European environment from the tenth to the seventeenth century. Modifications of rabbinic law; religious practice; liturgy and holy days; philosophic and mystical interpretations; messianic movements; emergence of the Hasidic movement.

3 points.

M W 6:10-7:25.

V 3320y. Introduction to Early Rabbinic Literature.

Major rabbinic writings (second to sixth century); emphasis on Agadah (nonlegal) sources.—Instructor to be announced.

Not offered in 1981-1982.

3 points.

V 3330y. The Beginnings of Jewish Mysticism.

A study of the biblical and Hellenistic foundations for Western mysticism—scriptural visions of God, apocalyptic literature, Greco-Roman magic and the merkabah mystical movement in Judaism.—A. Segal.

3 points.

M W 1:10-2:25.

V 3333x. Introduction to Jewish Mysticism.

Historical and analytic survey of Jewish mystical movements. Copresence and tension between conservative and revolutionary tendencies in Jewish mysticism. Kabbalah, Sabatianism, and Hasidism.

Not offered regularly. Not offered in 1981-82.

3 points.

Religion

W 4304y. Judaism in the Modern Western World.

Judaism from the 18th century to the present in Europe, America, and Israel; religious responses to emancipation in Western Europe; Reform and Neo-Orthodoxy, Jewish enlightenment and its religious aspects and consequences; advance of Jewish secularism, especially in Eastern Europe; cosmopolitanism and nationalism in Jewish religious thought; Zionism, from idea to reality; Jewish peoplehood and the Conservative movement in America; modern Orthodoxy and its institutions; religion in Israel; an old faith in a new state.—A. Eisen.

Not offered in 1981-1982.

3 points.

W 4310y. Talmudic and Geonic Literature.

Major rabbinic texts; development of the Mishnah, Midrash, and Talmud from the first century B.C.E. to the seventh century C.E., reaching from the pre-Christian to the Islamic period. Rabbinic texts read in the original language.—D. Weiss-Halivni.

Offered in alternate years. Not offered in 1981-1982.

3 points.

W 4312x. Modern Philosophies of Judaism.

Representative contemporary philosophies of Judaism; Holocaust, state of Israel, ethics of Judaism, and nature of Jewish law and authority today. Hermann Cohen, Leo Baeck, Classical Zionists, Mordecai Kaplan, Franz Rosenzweig, Martin Buber, and Abraham Heschel.—A. Eisen.

Offered in alternate years. Offered in 1981-1982.

3 points.

Tu Th 4:10-5:25.

History W 4508y. History of the Israelites to Alexander's Conquest.

Christianity

V 3202y. Introduction to the New Testament.

Introduction, by critical methods, to the religious history of the Christian movement in the New Testament period.—E. Pagels.

3 points.

M W F 10:00.

V 3402y. Early Christianity.

Emergence of early Christian communities and thought; Jesus of Nazareth; Paul; the apostolic age; political clash with Rome; paganism and the mystery religions; dialectic of orthodox and heretical thought to Augustine.—E. Pagels.

Prerequisites: Course V 3202 recommended.
Offered in alternate years. Not offered in 1981-1982.

3 points.

V 3404y. Eastern Christianity.

History of Eastern Christianity from the time of Constantine and the Greek and Oriental Fathers of the fourth century to early modern times; institutions, mystical theology, monasticism, religious art; considerable attention to Russia.—P. Valliere.

Offered in alternate years. Not offered in 1981-1982.

3 points.

History-Religion V 3405y. Medieval

Ecclesiastical History: 500-1150.

Institutional, doctrinal, and social development of Latin Christianity from the Late Antique period through the Investiture Conflict.—R. Somerville.

3 points.

Tu Th 10:35-11:50.

V 3406y. Medieval Ecclesiastical History:

900-1400.

Institutional, doctrinal, and social development of Latin Christianity from the post-Carolingian age to the conciliar struggles of the 15th century.—R. Somerville.

Not offered in 1981-1982.

3 points.

V 3408y. Catholic Theology since Vatican II.

Development of Catholic theology after Vatican II, in its historical context; Rahner, Kung, Metz, Lonergan, Teilhard, Panikkar, liberation theology; the Church and the world, infallibility, theological method, political theology, hope and the future, Christian ecumenism and world religions.—E. Cousins.

Not offered regularly. Offered in 1981-1982.

3 points.

M W 2:40-3:55.

V 3409y. Luther and the Radical Reformation: Piety and Polities.

Religious uniformity and diversity within the Protestant Reformation of the sixteenth century; major radical reformers and divinity of Jesus, place of violence in reform, relation between social and religious reform. Source materials consist of debates, letters, journals, and theological tracts.—M. Harran.

3 points.

Tu Th 2:40-3:55.

V 3410x. History of Religious Thought in the West. Jesus: Early Controversies, Recent Interpretations.

Selected sources: New Testament, apocryphal, gnostic gospels; early classics of interpretation by Tertullian, Clement, Athanasius, Augustine, Anselm; investigation of contemporary views: historical, psychological, political, religious.—E. Pagels.

Prerequisite: Course V 3202 or the equivalent.

Not offered in 1981-82.

3 points.

Religion

V 3412x. The Gnostic Gospels.

Investigation of the gnostic gospels and other secret writings, discovered in 1945 in Egypt. These texts, denounced and destroyed as "heretical" by leaders of the early Christian Church, will be explored in terms of their historical, literary, and political content.—E. Pagels.

3 points.

M W 2:40-3:55.

G 4420y. Varieties of Early Christianity.

E. Pagels.

3 points.

Th 4:10-6:00.

Islam

V 3635y. History of Sufism.

History of the Islamic mystical tradition from its origins in the eighth century, through its classical and institutional phases in the twelfth century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world. Instructor to be announced.

3 points.

M W 1:10-2:25.

G 4610y. Islamic Religion.

Survey of Islamic institutions in the formative and classical periods: revelation, prophecy, law, philosophy, theology, spirituality, community, religion and politics, etc.—Instructor to be announced.

A general knowledge of one other Western religion is recommended as well as familiarity with basic methodology in the study of religion.

3 points.

M 4:10-6:00.

Islamic-Religion W 4101. Mysticism in Islam.

Islamic-Religion W 4452x. Islamic Law.

The origins of Islamic law, its religious, social and political background and its nature. The schools of law and the elaboration of a legal theory. Conflicts between theory and practice. Contacts with western law and with customary law in newly Islamic areas. Modern developments and the part played by Islamic law in contemporary legal systems and legal thought in the Middle East.—J. Wakin.

3 points.

Th 10:00-11:50 plus hour to be arranged.

Islamic-Religion W 4702y. Islamic Sectarianism.

An introduction to the various divergent forms of Islam in the pre-modern period as represented by the history and doctrines of minority sects such as the Khawarij, the Zaydiya, the Ismailis, and the Druse.—P. Walker.

3 points.

Tu Th 2:40-3:55.

Islamic W 4500. Major Themes in the Qur'an.

Philosophy G 4180. Medieval Islamic and Jewish Philosophy.

Religion, Culture and Society

V 3407x. Mysticism.

Comparative investigation of selected mystical writings from Western and Eastern religious traditions. Contemporary psychological, philosophical, and phenomenological views of mystical experience.—J. Brereton and M. Harran.

3 points.

Tu Th 4:10-5:25.

V 3500x. Studies in Religion and Culture: 16th and 17th Centuries.

Relation between religion and culture in Europe at the beginning of the modern period. Religious thought of Northern Renaissance, Reformation, Counter-Reformation and the changing views of man, God, and the world in the 17th century. Erasmus, Luther, Calvin, Paracelsus, Loyola, Galileo, Descartes, Spinoza, and Payle. M. Harran.

3 points.

Tu Th 2:40-3:55.

V 3501y. Studies in Religion and Culture: 18th and 19th Centuries.

Relation between religion and culture; theories of religious development (personal, social, cultural). Hume, Edwards, Lessing, Rousseau, Kant, Hegel, Schleiermacher, Coleridge, Bushnell, Emerson, and others.—W. Proudfoot.

Offered in alternate years. Offered in 1981-1982.

3 points.

M W 11:00-12:15.

Religion-Sociology W 3503x. The History of Religion in America.

Religious thought and institutions from colonial times to the present; influence on American political and social history through the work of representative individuals.—G. Lindt.

Offered in alternate years. Not offered in 1981-1982.

3 points.

V 3505x. Contemporary Religious Thinkers.

Selected contemporary thinkers in Jewish, Catholic, and Protestant traditions on the challenges presented to traditional faiths by the modern world.—Instructor to be announced.

3 points.

Tu Th 1:10-2:25.

V 3508y. Religious Cults in Contemporary American Society.

A socio-historical examination of the "new" religious movements. Cult theology and world view, patterns of proselytization and conver-

Religion

sion, organizational structure and leadership, disaffection and deprogramming.—G. Lindt.
3 points.

Tu Th 2:40-3:55.

V 3513x. Philosophy of Religion.

Introduction to classical and contemporary issues, including those raised by the comparative study of religion.—W. Proudfoot.

Not offered regularly. Offered in 1981-1982.

3 points.

M W 11:00-12:15.

V 3700y. Women and Religion.

Images and roles of women in Jewish and Christian traditions: modern forms of women's spiritual quest.—Instructor to be announced.

3 points.

M W 6:10-7:25.

V 3702x. Religious Ethics: War and Peace in Jewish and Christian Thought.

Jewish and Christian attitudes toward war and peace; survey of classical traditions (holy war, pacifism, just war); newer elements in the discussion: utopianism, revolutionary violence, and militant nonviolence.—P. Valliere.

Not offered in 1981-1982.

3 points.

V 3704y. Religion and the State.

“Civil religion” from Hobbes to Rousseau. The idea of civil religion as it emerged in the late seventeenth and eighteenth centuries.

Not offered regularly. Not offered in 1981-1982.

3 points.

V 3705x. Problems of Authority in Religion.

Case studies from the history of Christianity depicting attitudes toward authority—divine, clerical, secular, etc.—and the influence of those attitudes in the development of Christianity. Emphasis on the reading and evaluation of primary sources (in English translations).—R. Somerville.

3 points.

W F 11:00-12:15.

V 3708y. Communes Past and Present: The Pursuit of Utopia.

Comparative analysis of selected religious and secular forms of communitarianism in the western world with particular reference to their experiments in restructuring traditional economic, familial, religious, and political values and relationships.—G. Lindt.

Not offered regularly. Not offered in 1981-1982.

3 points.

V 3710x. The World of Folklore and Magic.

Comparative investigation of folklore and folk-custom, emphasis on European and American, with reference to Asian, African, and other sources, ancient and modern. Topics include:

the life cycle (birth, betrothal, marriage, divorce, death); magic, healing, and superstition; folktale, drama, folksong, folklore today.—T. Gaster.

3 points.

Th 4:10-6:00 plus hour to be arranged.

V 3720y. Sociology of Religion.

Introduction to the field; its classic texts, its major areas of research, its methodological tools and dilemmas, and its relationship both to other sub-disciplines of sociology and to other approaches to religion. Interplay between theoretical works and ongoing empirical research.—A. Eisen.

Offered in alternate years. Not offered in 1981-1982.

3 points.

V 3725y. The World of Myth.

Nature of myth; investigation of representative myths, both Eastern and Western; science of mythology; myth today.—T. Gaster.

3 points.

Th 4:10-6:00, plus hour to be arranged.

V 3730x. Religious Conversion.

Conversion experiences of figures in the Christian tradition; Paul, Augustine, Francis of Assisi, Martin Luther and Jonathan Edwards.—M. Harran.

Not offered in 1981-1982.

3 points.

G 4073x. Philosophy of Religion in America.

Contributions of major American philosophers to the philosophy of religion. Representatives of idealism, pragmatism, naturalism, and process philosophy.—W. Proudfoot.

Not offered in 1981-1982.

3 points.

G 4451x. Humanism and Religion.

Recent religious and non-religious developments in the understanding of humanism; role of concepts of evolution and eschatology in contemporary discussion.—J. Martin.

Offered in alternate years. Not offered in 1981-1982.

3 points.

Religion-Sociology G 4700y. Sociology of Religion.

Introduction to the nature and development of the sociology of religion in the nineteenth and twentieth centuries; strategic developments in theory and methodology, with particular reference to the role of religion in culture, personality, and social structure.—G. Lindt.

Not offered regularly. Not offered in 1981-1982.

3 points.

Religion

Religion-Sociology G 4701x. Sociology of Religion: Comparative Institutions.

Types and patterns of differentiation of religious organizations; institutional interrelationships between religion and family, economy, politics, and science.—G Lindt.

Not offered regularly. Offered in 1981-1982.

3 points.

Tu 9:00-10:50.

G 4705y. Social Theory and Religion: The Classics.

Critical survey and exposition of major sociological, psychological, and anthropological theories of man, religion, and society: 19th and early 20th centuries.—G. Lindt.

Not offered in 1981-1982.

3 points.

G 4708y. Social Theory and Religion: Contemporary Studies.

Selected contemporary sociological, psychological, and anthropological theories of man, religion, and society. Parsons, Bellah, Berger, Luckmann, Geertz, Swanson, Levi-Strauss, Fromm, and Erikson.—G. Lindt.

Not offered regularly. Offered in 1981-1982.

3 points.

Tu 9:00-10:50.

W 4715x. Religion and Social Change: The Debate over Secularization.

Major terms, theories, and empirical studies in the literature of secularization. Role of paradigms and ideological factors in sociological controversy.—G. Lindt.

Not offered regularly. Not offered in 1981-1982.

3 points.

G 4716y. Religious Protest Movements.

Anthropology V 3042x. The Anthropology of Religion.

Ideological systems of simple or preindustrial cultures, relations between religion and other aspects of culture.

Offered in alternate years. Not offered in 1981-1982.

3 points.

Anthropology G 4114y. Religion in Anthropological Perspective.

SEMINARS AND READING COURSES

Students who are not religion majors must obtain permission of the instructor.

V 3800x. Majors' Colloquium.

Critical discussion of works on the theory of religion.—M. Harran and P. Valliere.

Recommended for all senior majors.

4 points.

W 4:10-6:00.

V 3804y. Seminars in Religious Thought.

I. Religious Responses to Suffering and Death.

Various religious attempts to address questions posed by suffering and death. The theological understanding of the relation between suffering and sin, the question of whether there is value in suffering, the problem of what human suffering implies about the nature of God. Works by Kierkegaard, Wiesel, Rahner, Soele, Old and New Testament selections.—

M. Harran.

4 points.

W 2:10-4:00.

Psychology-Religion V 3900y. Seminar in the Psychology of Religion.

Religion V 3901x, V3901y. Guided Reading and Research.

A program of study designed to give outstanding majors an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program.—Staff.

3 points.

Consultation periods to be arranged with adviser.

GRADUATE COURSES

Other courses of possible interest to students, which are open to qualified undergraduates with the instructor's permission, are described in the bulletin of the Graduate School of Arts and Sciences.

Russian

Office: 226 Milbank Hall

Telephone: 280-5417

Professors

Richard F. Gustafson (Chairman), Marina Astman

Associates

Anatol K. Sapronow, Marianna Sapronow, Zoya Trifunovich

Other officers of the University offering courses in Russian:

Professors

Robert L. Belknap, William E. Harkins, Robert A. Maguire, John Malmstad

Lecturer

Irene Balaksha

Associates

Richard Borden, Inna Konon

The Russian Department at Barnard offers a program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. The department insists upon a strong foundation in the language, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government, business, journalism, or international law.

Foreign Language Requirement for the Degree: All students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V 1202, *Intermediate Course*, or any course beyond that level. Students whose native language is Russian should consult with the department chairman.

The Russian Club attends Russian movies, operas, and church services, and visits Russian restaurants and areas of the city where Russian is spoken.

REQUIREMENTS FOR THE MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with either Professor Gustafson or Professor Astman as early as possible.

A total of 10 courses are required for the major:

Russian V 3333-V 3334	<i>Introduction to Russian Literature</i>
Russian V 1220	<i>Nineteenth-Century Russian Prose</i>
Russian V 1221	<i>Twentieth-Century Russian Prose</i>
Russian V 3595	<i>Seminar</i>

At least two courses from:

Russian V 3441, V 3442	<i>Russian Conversation and Composition</i>
Russian V 3443, V 3444	<i>Russian: Syntax and Style</i>

And at least three more course, including at least one course from the following:

Russian V 3461	<i>Pushkin</i>
Russian V 3462	<i>Gogol</i>
Russian V 3463	<i>Tolstoy</i>
Russian V 3464	<i>Dostoevsky</i>
Russian V 3465	<i>Russian Poetry in the 19th and 20th Centuries</i>

Russian V 3467

Twentieth-Century Prose Writers

Independent study with any of the faculty at Barnard and the Department of Slavic Languages and Literatures at Columbia University can be arranged and study in the Soviet Union is possible as part of the major.

REQUIREMENTS FOR THE MINOR

A total of five courses beyond the second year of Russian are required for the minor, including either V 3331, V 3332, *Advanced Course*, or V 3333, V 3334, *Introduction to Russian Literature*.

COURSES OF INSTRUCTION

LANGUAGE COURSES

V 1101x-V 1102y. Elementary Course.

Grammar, reading, composition; oral practice in small groups.

Work in the language laboratory and oral practice are required.

4 points.

Section I M W F 10:00. R. Borden.

Section II M W F 12:00. I. Konon.

Section III M W F 1:10. I. Balaksha.

Oral Practice

Section I M W F 9:00.

Section II M W F 11:00.

Section III M W F 1:10.

Section IV M W F 2:10.

Section V Tu Th F 10:00.

V 1201x-V 1202y. Intermediate Course.

Reading, composition, grammar, review; oral practice in small groups.

Prerequisite: Course V 1102 or the equivalent.

Work in the language laboratory and oral practice are required.

4 points.

Section I M W F 9:00. Z. Trifunovich.

Section II M W F 10:00. I. Balaksha.

Section III M W F 12:10. I. Balaksha.

Oral Practice

Section I M W 10:00.

Section II M W 11:00.

Section III Tu Th 9:00.

Section IV Tu Th 10:00.

Section V Tu Th 11:00.

Section VI Tu Th 12:00.

V 3331x, V 3332y. Advanced Course.

Emphasis on conversation and composition; reading and discussion of selected twentieth-century texts; lectures, papers, and oral reports. Conducted entirely in Russian.—

Z. Trifunovich and M. Sapronow.

Prerequisite: Course V 1202 or the equivalent.

Oral practice is required.

4 points.

M W F 1:10.

Oral practice

Section I M W 12:00.

Section II M W 3:10.

V 3441x, V 3442y. Russian Conversation and Composition.

Selected twentieth-century texts including fiction and non-fiction provide a context for discussion of contemporary issues; lectures, reports, and compositions. Conducted entirely in Russian.—M. Astman.

Prerequisite: Three years of college Russian or permission of the instructor.

The second term may be taken without the first.

3 points.

M W F 12:00.

V 3443x, V 3444y. Russian Syntax and Style.

Autumn Term: Systematic study of problems in Russian syntax; written exercises; translations into Russian, and compositions. Spring Term: Discussion of styles and levels of language, including word usage and idiomatic expressions; written exercises, analysis of texts, and compositions. Conducted entirely in Russian.—Z. Trifunovich.

Prerequisite: Three years of college Russian or permission of the instructor.

The second term may be taken without the first.

3 points.

M W F 10:00.

LITERATURE COURSES

V 3333x, V 3334y. Introduction to Russian Literature.

Emphasis on reading and literary analysis; representative works of Russian literature from Pushkin to the modern period. Conducted mainly in Russian; examinations in English.—J. Malmstad and A. Sapronow.

Prerequisite: A grade of B- or better in Course V 1202 or permission of the instructor.

Oral practice is required.

4 points.

M W F 10:00.

Oral practice

Section I M W 2:10.

Section II Tu Th 1:10.

Section III Tu Th 2:10.

Russian

V 3461x. Pushkin.

Pushkin's narrative, dramatic, and lyrical verse in the original. Conducted mainly in Russian; examinations in English.—M. Astman.

Prerequisite: Three years of Russian or permission of the instructor.

Not offered regularly. Not offered in 1981-82.

3 points.

V 3462y. Gogol.

The major works of Gogol, in the original.—J. Malmstad.

Prerequisite: Three years of Russian or permission of the instructor.

Not offered regularly. Not offered in 1981-82.

3 points.

V 3463y. Tolstoy.

Anna Karenina, in the original, with emphasis on linguistic and literary analysis. Class discussion conducted in English.—R. Gustafson.

Prerequisite: Three years of Russian or permission of the instructor.

Offered in alternate years. Offered in 1981-1982.

3 points.

M W F 11:00.

V 3464x. Dostoevsky.

One major novel, in the original, with emphasis on linguistic and literary analysis.—M. Astman.

Prerequisite: Three years of Russian or permission of the instructor.

Offered in alternate years. Not offered in 1981-82.

3 points.

V 3465x. Russian Poetry in the Nineteenth and Twentieth Centuries.

Selected texts from representative lyric poets, including Tiutchev, Fet, Blok, and others; metrics, formal analysis of style and structure, and relationships to literary and philosophical movements.—M. Astman.

Prerequisite: Three years of Russian or permission of the instructor.

Not offered regularly. Offered in 1981-82.

3 points.

M W F 11:00.

V 3467y. Twentieth-Century Prose Writers.

Two or three of the most important twentieth-century writers, in the original.—R. Maguire.

Prerequisite: Three years of Russian or permission of the instructor.

Not offered regularly. Not offered in 1981-82.

3 points.

V 3595x. Seminar.

Supervised individual research on some aspect of the seminar topic with class reports culminating in a critical paper.—M. Astman.

Topic for 1981-82: the growth of Russian national self-awareness.

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Prerequisite: Major status or permission of the instructor.

4 points.

W 2:10-4:00.

V 3596y. Individual Research.

Supervised individual research culminating in a critical paper.—Staff.

Open to senior majors, and permission of the instructor is required.

4 points.

Hours to be arranged.

RUSSIAN LITERATURE IN TRANSLATION

V 1220x. Nineteenth-Century Russian Prose.

Development of prose forms from Sentimentalism to Impressionism, with special attention to Gogol, Turgenev, and Chekhov. Tolstoy and Dostoevsky not included.—W. Harkins.

A knowledge of Russian is not required.

3 points.

M W F 11:00.

V 1221y. Twentieth-Century Russian Prose.

Course of Russian prose fiction from symbolism to the present; Bely's *Petersburg*, Sologub's *Petty Demon*, Babel's *Red Cavalry*, Olesha's *Envy*, and representative major works by Bunin, Pasternak, and Nabokov. Recent "dissident" writers such as Solzhenitsyn.—R. Maguire.

A knowledge of Russian is not required.

3 points.

M W F 11:00.

V 1222y. Tolstoy and Dostoevsky.

Major works of the two writers.—R. Gustafson.

A knowledge of Russian is not required.

3 points.

M W F 12:00.

V 1224y. Introduction to Russian Culture.

Principal currents of Russian thought and artistic expression with emphasis on elements that appear to be characteristically Russian; supplemented with films and art slides.—W. Harkins.

A knowledge of Russian is not required.

3 points.

Tu Th 1:10-2:25.

G 4006y. Nineteenth and Twentieth-Century Russian Thought.

Concepts of God, man, nature, and history; Chaadayev, Khomyakov, Herzen, Bakunin, Solovyov, Fyodorov, Berdyaev, Shestov, Lossky, Frank and others.—R. Gustafson.

A knowledge of Russian is not required.

Offered in alternate years. Not offered in 1981-82.

3 points.

Sociology

Office: 410 E Milbank Hall

Telephone: 280-5417

Professors

Bernard Barber (Chairman), Mirra Komarovsky¹

Assistant Professor

Mary Ruggie, Viviana Zelizer

Lecturers

Theresa Rogers, Shulamith Straussner

Other officers of the University offering courses listed below:

Professors

Allen Barton, Jonathan Cole, Sigmund Diamond, Eugene Litwak, Herbert Passin, Harriet Zuckerman

Assistant Professors

Mark Baldassare, Andrew Beveridge, Steve Messner, James L.P. Thompson

¹Emeritus and Special Lecturer

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, education, science, etc. The impact on individual behavior of ethnic, racial, religious, and sexual categorizations, rural and urban differences, bureaucratic organizations and small groups, and the mass media are also of sociological interest. So is the relationship between social structure, culture, and personality. Sociology is concerned not only with the normal functioning of social institutions but also with social change and with social problems such as deviance and crime, industrial conflict, and other areas of social disorganization. In studying these subjects, materials about American society are given primary emphasis. Comparative materials from other societies, preliterate and more highly developed, are also extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students learn important facts about scientific method in general.

There are no special admissions requirements or procedures. Students (majors and non-majors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning), and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

A minimum of eight courses is required for the major, including

Sociology 1, 2	<i>Introduction to Sociology</i>
Sociology V 3100	<i>Introduction to Social Theory</i>
Sociology V 3211, V 3212	<i>Methods of Social Research I and II</i> (no later than the junior year)
Sociology 87-88	<i>Individual Projects for Seniors</i>

and other courses selected in consultation with the major adviser.

Sociology

There is no major examination. To graduate a student must complete, to the satisfaction of her instructor in Sociology 87-88, a long paper involving some form of sociological research and analysis.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including Sociology 1, 2, and three courses to be selected in consultation with the Sociology adviser.

COURSES OF INSTRUCTION

1x. Introductory Sociology, I.

Introduction to the sociological perspective on human behavior; major theoretical orientations, research methods, and policy uses. Application of basic sociological concepts to the study of love and death. Process of social learning in childhood and adulthood; sex role differences; agents of socialization—family, education, mass media, workplace.—V. Zelizer.

3 points.

M W 1:10-2:25.

2y. Introductory Sociology, II.

General introduction to sociological analysis continued. Impact of small groups and formal organizations on individual behavior, selected problems of social deviance and social control, stratification, and social change.—V. Zelizer.

Prerequisite: Course I or permission of the instructor.

3 points.

M W 1:10-2:25.

22y. Introduction to Social Work.

Structure and functions of social welfare in the U.S., and the profession of social work and the several fields and domains in which it works. Social and behavioral sciences related to current events and developments.—S. Straussner.

3 points.

M W 1:10-2:25.

V 3100y. Introduction to Social Theory.

Introduction to theories used in the study of complex societies and social change, including those of Marx, Durkheim, Weber; contemporary functional, conflict, interaction, and exchange theories.—Staff.

Prerequisite: One course in sociology preferred.

3 points.

Tu Th 6:10-7:25.

V 1206x. Equality and Inequality in Western Societies.

Theoretical and empirical analysis of problems of inequality, justice, and discrimination in Western societies. Influence of ascribed statuses on life-chances of individuals; fairness of social institutions in rewarding talent. Historical, Sociological, and philosophical literature. Central themes in stratification theory, from nine-

teenth century biologistic views through Marxian formulations to contemporary functional analysis.—S. Messner.

3 points.

Tu Th 2:40-3:55.

V 3211x. Methods of Social Research, I.

Theories and their functions in inquiry; sociological concepts, their definition and measurement; criteria for evaluation claims to knowledge of social phenomena; problem with common sense explanations; concepts of causality in the social and physical sciences; nature of evidence and inference; conduct of inquiry; conceptualization and the formulation of hypotheses; observational procedures and problems of causal inference; analysis of quantitative and qualitative data.—S. Messner.

3 points.

Tu Th 10:35-11:50.

V 3212y. Methods of Social Research, II.

Introduction to elementary data analysis; definition and measurement of variables; testing hypotheses; interpretation of findings. Students use the computer to perform a simple analysis of a data set.—J. L. P. Thompson.

Prerequisite: Sociology V 3211.

3 points.

M W 2:40-3:55.

One hour laboratory per week.

V 3209y. Social Class and Social Mobility.

Meaning of social class and social mobility in different cultural and institutional contexts; impact of economic institutions on stratification and mobility; historical forces which have shaped the present situation in Western Europe, America, and the socialist states; class structure and mobility in future societies.—Instructor to be announced.

3 points.

M W 4:10-5:25.

V 3215y. American Society and Politics.

Development of political behavior in the United States in relation to social change, using historical data on voting and elites with survey data for the last forty years; bases of cleavage in mass and elite political behavior (class, ethnicity, region, etc.); role of social movements and third

parties; reasons for failure of socialist and fascist movements in comparison with European experience; current trends in ideology and political behavior.—A. Barton.

Permission of the instructor required.

3 points.

Tu Th 4:10-5:25.

V 3225y. Sociology of Education.

Social organization of education in the United States, with emphasis upon primary and secondary schools: school as a complex organization; classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in relations between the school and the community.—H. Zuckerman.

3 points.

M W 1:10-2:25.

V 3228y. Sociology of Medicine.

Health, illness, and the organization and delivery of health care; selected social policy issues. Differential distribution and utilization of medical services; social organization of the medical professions; doctor-patient relationship; social factors in the etiology and distribution of illness.—T. Rogers.

3 points.

M W 2:40-3:55.

V 3303y. Female and Male: A Sociological Perspective.

Economic, demographic, and cultural changes modifying the traditional conceptions of masculinity and femininity; stresses in female-male relationships at various stages of the life cycle and in the family, occupational world, and other institutional settings; class and race differences in social roles of the sexes; social policies leading to the alleviation of current problems.—M. Komarovsky.

Enrollment limited to 35-40 students. Sign-up sheet, 317 Milbank Hall.

3 points.

Tu Th 10:35-11:50, plus individual consultation with the instructor.

W 3324x. Urban Sociology.

Theories and empirical analyses of urban social structures and social processes in industrialized and agrarian regions. Urban life and culture in New York city.—M. Baldassare.

Field work required.

3 points.

Tu Th 2:40-3:55.

W 3443x. Sociology of Business and Economic Life.

Advanced technology and modern industrial organization as they affect social structure and quality of life in wealthier and third world societies; impact on other social features of

business and trade; private ownership and public control; patterns of consumption and income; concentration and transmission of wealth. Materials drawn from sociological, economic, anthropological, and historical sources; implications for a current social issue as expressed in the literature of social criticism.—A. Beveridge.

3 points.

M W 6:10-7:25.

W 4034x. Sociology of Science.

Science as a social and cognitive system; growth of scientific knowledge; conflict among scientists; the hierarchy of the sciences; truth or fiction? Problems of deviance, resistance, inequality, discrimination, and justice in science; the concept of genius; science and social policy.—H. Zuckerman.

3 points.

Th 2:00-4:00.

W 3620x. The Sociology of Law and Legal Systems.

Social forces and traditions that help shape the law. Historical and current uses and abuses of social science evidence and method in legal cases; emphasis on landmark constitutional decisions, particularly those dealing with sex-based and race-based discrimination; related developments under statutory schemes such as Title VII of the Civil Rights Act; comparisons of the logic of proof and the problems of inference in social science and law; theoretical issues of equity, fairness, deterrence linked to empirical evidence.—J. Cole.

3 points.

Tu Th 10:35-11:50.

V 3555y. Sociology of Family Institutions.

An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Some topics are: courtship and mate selection; sex roles and sexuality; alternative family structures; parenthood and the changing status of children; the impact of class, ethnicity and race on family life; social policy and the future of the family.—V. Zelizer.

3 points.

M W 11:00-12:15

W 3666y. Political Sociology.

Basic theoretical and empirical approaches to the sociological study of Western politics. Social foundations of politics; ideology and opinion; social base of regimes; class politics; mass participation and voting; movements and revolution; state and society.—Instructor to be announced.

Sociology

Some background in sociology, American or European history, or political science theory recommended. Not open to freshmen.

3 points.

Hours to be arranged.

V 3994x-V 3995y. New York Area Undergraduate Research Program.

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, each year a different topic is chosen for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists.—Staff. *Topic for 1981-1982: Real Estate Crisis in New York City.*

Enrollment limited to 15 seniors majoring in sociology or another social science.

Permission of the instructor required.

Field work required.

4 points.

W 4:10-6:00.

W 4010x. The State Socialist Societies of the U.S.S.R. and Eastern Europe.

Marxist and non-Marxist theories concerning the societies of the U.S.S.R. and Eastern Europe. Class structure and stratification, position of nationalities and religious groups, work and leisure, family systems, social controls and propagation of social values, alienation, and authenticity; social psychology of the individual citizen.—Staff.

3 points.

Th 2:10-4:00.

V 3265y. Minorities and Ethnic Groups in American Life.

Role of racial and ethnic communities in modern American society, with emphasis on the distinctive cultural, political, and occupational patterns, as well as their tendencies to intermarry, assimilate, and conflict. Groups such as the Jewish, Italian, Irish, Puerto Rican, and Blacks will be studied.—E. Litwak.

3 points.

Tu Th 2:40-3:55.

W 1221y. Social Disorganization, Crime, and Deviance.

Major theoretical approaches to crime and deviance and an analysis of major research studies.—S. Messner.

3 points.

Tu Th 2:40-3:55.

W3101x. Contemporary Social Theory.

Selected works of contemporary sociological theorists. Monographs by Parsons, Merton, Homans, and other social theorists.—Instructor to be announced.

Not offered in 1981-82.

3 points.

W 3210y. Comparative Sociology of Race and Ethnicity.

Theories of racial and ethnic structures. Polarization or deescalation of conflict in divided societies. Obstacles to and consequences of social mobility. Ideology and consciousness.—J. L. P. Thompson.

3 points.

M W 6:10-7:25 p.m.

V 3222y. Social Change: Development and Modernization.

Interpretive approaches to large-scale social change; Western experience compared with empirical and descriptive studies of the Third World, especially the Middle East and North Africa.—A. Beveridge.

3 points.

M W 2:40-3:55.

W 3240x. Introduction to Japanese Society.

Japanese society and culture; background, development, and present status. Transformation of a non-Western, nonindustrialized society into an advanced modern industrial society.—H. Passin.

3 points.

Tu 2:10-4:00 plus discussion hour to be arranged.

V 3326y. Personality, Culture, and Social Structure.

Limits of individual freedom and impact of norms, values, and social structure. Perspectives of major contemporary sociological orientations, as well as comparative and historical studies. Process of socialization and impact of culture and social structure on sex roles, professions, poverty and deviance; recent biological theories.—E. Zerubavel.

3 points.

Tu Th 4:10-5:25.

W 3680y. Sociology of Work and Occupation.

Occupational structure of Western societies. Problems of mobility, alienation, reward, and occupational satisfaction through reference to theoretical and empirical works. Worker alienation in contemporary American society.—Instructor to be announced.

3 points.

M W 4:10-5:25.

W 3925x. Analysis of Planned Action.

Planned social action to attain objectives; circumstances that prevent attainment of

objectives or require alteration of plan. Cases drawn from Utopian communities, foundation of colonies, national revival movements, and post-revolutionary societies.—S. Diamond.

4 points.

W 2:10-4:00.

G 4018x. Sex Roles and Society.

The impact of biology, psychology, and society on sex-role differentiation and the consequences of sex-typing for the individual and society. Major theoretical perspectives and significant recent interdisciplinary research. Topics include socialization; the family; death, divorce, singlehood; deviance, health, illness; race, class, age, stratification; sexuality; social policy.—

V. Zelizer.

Open to undergraduates.

3 points.

W 4:10-6:00.

87x-88y. Individual Projects for Seniors.

The instructor will supervise the writing of long papers involving some form of sociological research and analysis.—B. Barber.

Required of all senior majors.

4 points.

W 4:10-6:00.



Spanish

Office: 208 Milbank Hall

Telephone: 280-2061, 5422

Professors

Mirella Servodidio (Chairman), Margarita Ucelay¹

Associate Professors

Marcelo Coddou, Marcia Welles

Assistant Professors

Helene Farber de Aguilar, James Crapotta, Enrique Giordano

Associates

Vilma Bornemann, Flora Schiminovich

Instructor

Perla Rosencvaig

Other officers of the University offering courses listed below:

Professors

Karl-Ludwig Selig, Phillip W. Silver

¹Emeritus and Special Lecturer

A major in Spanish is designed to enable the student to acquire ease and fluency in the written and spoken language, and to develop an understanding and appreciation of the cultural traditions and literature of Spain and Latin America.

Foreign Language Requirement for the Degree: Freshmen who have had prior training in Spanish and who wish to satisfy the foreign language requirement in Spanish will be placed in the appropriate language courses on the basis of their CEEB scores, or, if such are not available, on the basis of proficiency test taken before registration. Students having a sufficiently high score will automatically fulfill the requirement. All others may do so by completing course 4 with the exception of students of Spanish-American background who may fulfill the requirement with Spanish 6 instead of Spanish 4. Transfer students should consult the department chairman.

Active student-faculty cooperation and exchange are encouraged through the Spanish Club, which sponsors discussion sessions, film series, and lectures by professors and visiting scholars on topics of current interest. Student participation is essential to the faculty's yearly presentation of a classic or contemporary drama to the academic as well as general New York Hispanic Communities. The rich cultural resources of the city are utilized at all levels of instruction as a natural extension of the academic process.

REQUIREMENTS FOR THE MAJOR

Students interested in the major are urged to consult with the department as early as possible in order to arrange a program best suited to their particular concerns. Guidance and program coordination are also offered to Foreign Area Studies majors in the subdivisions of Latin America and Spain. Study abroad (Spain or Latin America) is actively encouraged and supported by departmental scholarship funds available to majors.

The ten following courses are required for the major; a sequential order is strongly recommended:

Spanish 13
Spanish 15
Spanish 17

Spanish 18
Spanish 20
Spanish 23
Spanish 25, 26
Spanish 31, 32

The Culture of Spain
Spanish-American Culture
Spanish Literature in the Middle Ages and Early Renaissance
Literature of the Golden Age
Don Quijote
Nineteenth-Century Literature in Spain
Contemporary Spanish Literature I and II
The Literature of Latin America

A major in Spanish must broaden her study of Spanish culture by relating it to other cultures which have influenced it or been influenced by it. The following courses are recommended:

Anthropology V 3209	
Classical Literature 32	
Classical Literature V 3123	
Art History 75, 76	
French 21-22	
German 55-56	
History W 4779-W 4780	
Philosophy 1	
Religion V 1101	

<i>The Archaeology of the Old World</i>	
<i>Classical Myth</i>	
<i>Greek Drama and Its Influence</i>	
<i>European Painting Since the Renaissance</i>	
<i>Masterpieces of Literature from the Middle Ages to the Twentieth Century</i>	
<i>Major Works of German Literature and Thought</i>	
<i>History of Latin American Civilization</i>	
<i>Introduction to Philosophy</i>	
<i>Introduction to the Study of Religion</i>	

The major examination consists of a three-hour written examination on Spanish literature; a three-hour written examination on Hispanic civilization and Spanish-American literature, and a half-hour oral examination on literature and culture. All examinations are conducted in Spanish.

REQUIREMENTS FOR THE MINOR

A student minoring in Spanish will be required to take Spanish 20, 31, and 32, and three more courses to be chosen from Spanish 17, 18, 23, 25, and 26.

COURSES OF INSTRUCTION

LANGUAGE COURSES

(Enrollment limited to 20 students per section.)

V 1101x-V 1102y. Elementary Full-Year Course.
Grammar, reading, conversation.—Staff.
May not be taken parallel to elementary Italian.
Work in the language laboratory is required.
4 points.

Sections I, II M Tu W Th F 9:00.

Section III M Tu W Th F 10:00.

Sections IV, V M Tu W Th F 11:00.

Section VI M Tu W Th F 12:00.

Ax-By. Intensive Elementary Course.
Intensive alternative to Spanish V 1101-V 1102 based on the Dartmouth Intensive Language model and designed to promote rapid oral fluency. Class meets ten hours per week: five hours devoted to drill work, five hours to communicative situations. Primarily for students who need to acquire Spanish for travel or professions requiring fluency.—J. Crapotta and staff.
4 points.

M Tu W Th F 9:00 and M Tu W Th F 12:00.

2x. Intensive Review of Elementary Spanish.
Course for incoming students whose score on the placement examination puts them between the beginning and intermediate level. Also intended for students of Spanish-American background who have some speaking knowledge of Spanish but insufficient formal training or grammatical foundation.—Staff.
Prerequisite: Course V 1101 or the equivalent.
Work in the language laboratory is required.
4 points.

Section I M Tu W Th 9:00.
Section II M Tu W Th 12:00.

3x, 4y. Intermediate Course.
Rapid review of grammar and syntax; oral practice; discussion and analysis of important works in Spanish and Spanish-American literatures.—Staff.

Prerequisite: Course 2 or the equivalent.
Work in the language laboratory is required.
3 points.

Section I M W F 9:00.

Sections II, III M W F 10:00.

Sections IV, V, VI M W F 11:00.

3y. Intermediate Course. Part I.
Equivalent to Course 3 but given in the Spring Term.—Staff.

Prerequisite: Course 2 or the equivalent.
Work in the language laboratory is required.
3 points.

Section I M W F 9:00.

Section II M W F 11:00.

4x. Intermediate Course. Part II.
Equivalent to Course 4, but given in the Autumn Term.—Staff.

Prerequisite: Course 3 or the equivalent.

3 points.

Section I M W F 10:00.

Sections II, III M W F 11:00.

6x. Problems of Spanish Grammar.
Morphology, structure, and syntax as a point of departure for questions related to New York City Spanish; i.e., why linguistic norms operate, what variants develop, to what extent New York City Spanish is peculiar and why.—E. Giordano.

Spanish

Prerequisite: Course 4 or the equivalent, or Latin-American background.

Recommended to students in Education, Linguistics, Urban Studies.

May be used to fulfill the foreign language requirement by students of Spanish-American background.

3 points.

M W F 1:00.

7y. Advanced Composition and Translation.

Designed to improve expositional skills and to develop greater stylistic subtlety and flexibility. Translation of various styles of poetry and prose.—H. Aguilar.

Prerequisite: Course 4 or the equivalent.

3 points.

M W F 1:00.

9x, 10y. Advanced Oral Spanish.

Spoken Spanish, differences of pronunciation in Spain and America; conversation, oral drills, and field work.—Staff.

Prerequisite: Course 4 or the equivalent. Permission of the instructor required.

Not intended for students of Spanish-American background.

Enrollment limited to 15 students per section.

3 points.

Section I, II M Tu W Th 1:00.

French-Spanish 90x. Methodology of Foreign Language Teaching.

Methods course designed to train future teachers in theories and techniques of language teaching. Teaching conversation, grammar, literature, translation and lesson organization. Students practice and demonstrate techniques. Videotaping of some sessions for auto-critique.—J. Crapotta.

Primarily for sophomores and juniors in the Education Program and others interested in foreign language teaching.

Not offered in 1981-82.

3 points.

LITERATURE COURSES

For non-majors, the literature courses listed in this section (except 13 and 15, 16) will count toward the distribution requirement. All Barnard courses are conducted entirely in Spanish except Course 40.

Unless otherwise stated, the prerequisite for all literature courses is the satisfaction of the foreign language requirement in Spanish.

Sx. Literary Analysis of Contemporary Authors.

Major twentieth-century works; techniques of literary analysis as they apply to different genres; theories of criticism; critical evaluation of style, structure, and content.—

F. Schiminovich.

3 points.

Tu Th 1:10-2:25.

11x, 11y. Significant Themes of Contemporary Latin American and Spanish Literature.

Selected works of contemporary interest. Spanish 11 may be elected more than once for course credit providing sections vary. 3 points.

11x. I. The Female Figure in Contemporary Latin American Literature.

A critical examination of how woman is portrayed by male authors: her social reality and her literary image as reflected in selected works of Carpentier, Cortázar, Donoso, Edwards, Fuentes, and García Marquez.—M. Coddou.

M W F 10:00.

II. An Introduction to Spanish Theatre.

A study of four significant dramatic forms: the *comedia* (Lope de Vega), the *esperpento* (Valle-Inclan), the surrealist theatre (García Lorca) and the underground theatre of the '60's. Analysis of dramatic language and form; relationship of theatre and society.—J. Crapotta.

Tu Th 1:10-2:25.

11y. I. The Male Figure in Contemporary Latin American Literature.

The traditional concept of man and manhood: its mythical dimension, crisis and evolution as reflected in the narrative works of Arlt, Onetti, Bombal, Cortázar, Donoso, Fuentes, Vargas Llosa, Agustín and Puig. (Emphasis will be placed on the short story genre).—E. Giordano.

M W F 10:00.

II. The Role of Children and Adolescents in Twentieth Century Latin American Narrative.

Psychological, political and social problems relative to children and adolescents as reflected in selected works of Mario Vargas Llosa, Guillermo Cabrera Infante, Julio Cortázar and Reinaldo Arenas. Analysis of stylistic devices and point of view.—P. Rozencwaig.

Tu Th 1:10-2:25.

13x. The Culture of Spain.

History and culture of Spain; origins and evolution of Spanish character, tradition, and thought; interrelationship of its history and arts and the scope of its contribution to Western culture. Use of audio-visual materials.—M. Ucelay.

3 points.

Tu Th 1:10-2:25.

15x, 16y. Spanish-American Culture.

Introduction to the history of Spanish-American culture from Pre-Columbian times to the present. First semester: Spanish-American history, society, and art, from the time of the great

Indian empires to the late nineteenth century. Second semester: subsequent developments to the present day; contemporary revolutionary movements, mentalities, and purposes. The course is concerned with patterns of cultural identity and nationality, and involves anthropological as well as historical data.—

M. Coddou.

Both terms required of Latin American Areas majors. The first semester required of Spanish majors.

3 points.

Tu Th 10:35-11:50.

C 3333x-C 3334y. Masterpieces of Spanish Literature (In Spanish).

Survey of major works of great writers of Spain and Spanish America.—P. Silver.

3 points.

M W F 9:00.

17x. Spanish Literature in the Middle Ages and the Early Renaissance.

Lectures and discussions in Spanish on Spanish literature from its origins to the beginnings of the sixteenth century.—M. Servodidio.

3 points.

M W F 10:00.

18y. Literature of the Golden Age.

Poetry, theater, and narrative of the Golden Age; Garcilaso, the mystic poets, Cervantes, Lope de Vega, and Calderón.—M. Welles.

3 points.

Tu Th 1:10-2:25.

20x. Don Quijote.

Cervantes' masterpiece; a study of the principal critical works.—M. Ucelay.

Prerequisite: Course 17 or 18 or permission of the instructor.

3 points.

M W F 11:00.

23x. Nineteenth-Century Literature in Spain.

Romantic drama and poetry; realistic novel with special emphasis on Galdós.—M. Ucelay.

3 points.

M W 1:10-2:25.

25y. Contemporary Spanish Literature. Part I.

Characteristics, techniques, and style of writers of the generation of '98 from Unamuno to Ortega y Gasset, Baroja, Valle-Inclán, Azorín, Benavente, A. Machado, Juan Ramón Jiménez. M. Servodidio.

3 points.

M W F 11:00.

26y. Contemporary Spanish Literature. Part II.

Ideas, trends, and new literary concepts from García Lorca and the generation of '27 to the present-day writers.—M. Welles.

3 points.

M W F 9:00.

31x, 32y. The Literature of Latin America.

Autumn Term: Introductory study from its indigenous origins in the Popol-Vuh, through the Colonial period to the twentieth century. Modernist poets and the literature of the Gaucho and the Indian. Spring Term: Post-Modernist poetry; Jorge Luis Borges; contemporary Latin-American novel.—31: H. Aguilar; 32: M. Coddou.

3 points.

31: M W F 9:00.

32: M W F 10:00.

33x. Senior Seminar.

Intended to supplement or coordinate work in other courses and to introduce the student to methods of scholarly research.—Staff.

Open only to senior majors.

3 points.

Hours to be arranged.

34y. Latin American Seminar.

Designed for senior majors in Latin American areas to examine significant aspects of Latin American culture. Four general themes are established from which the student chooses one as a focus for research.—M. Coddou.

Open only to senior majors in Latin American areas. Permission of the instructor required.

3 points.

Tu 3:10-5:00.

W 4236y. Contemporary Latin American Poetry (in Spanish).

Bilingual texts may be used where available. Cesar Vallejo, Pablo Neruda, Jorge Luis Borges, Octavio Paz, and Nicanor Parra. Origins of historical, social, and vanguardist themes in their poetry.—P. Silver.

3 points.

M W 1:10-2:25.

SPANISH LITERATURE IN TRANSLATION

40y. Contemporary Latin American Narrative in Translation.

Readings and discussions of major works by Borges, Fuentes, Cortázar, García Marquez, Rulfo, Puig and Vargas Llosa. Emphasis on the social and structural problems.—H. Aguilar.

3 points.

Tu Th 1:10-2:25.

Comparative Literature-Spanish C 3810x. Don Quixote in Translation.

Narrative technique and structure of the novel. Various kinds of novels and other narrative structures and models (e.g. pastoral, sentimental, picaresque, romances of chivalry, the *novella*) in their relationship to Don Quixote and the history and development of the genre.—K.-L. Selig.

3 points.

Tu Th 10:35-11:50.

Theatre

Office: 231 Milbank Hall

Telephone: 280-2079

Director of the Minor Latham Playhouse

Kenneth Janes (231 Milbank Hall), Professor of English

Assistants to the Director

Luz Castaños (Associate in Theatre), June Ekman (Instructor in Theatre), Shirley Kaplan (Associate in Theatre), Dennis Parichy (Instructor in Theatre), Janet Soares (Associate in Dance)

The Minor Latham Playhouse is the center of activities for Barnard students interested in the theatre. The Playhouse is a small professional theatre housing the Barnard College Theatre Company, and it is a busy living theatre for students who wish to work at the craft of creating theatre. Majoring in various departments, the students bring to the Playhouse their special abilities and the experience of such courses as those listed. Students participate in staged productions of both the classic and the experimental, dance, opera, cabaret, musical ensemble, and children's theatre. The Gilbert and Sullivan and the French, Greek, and Spanish clubs work in close cooperation with the theatre program. Students also have the opportunity to tour with the medieval theatre touring group and with Theatre in a Box (children's theatre).

Ms. Luz Castaños advises theatre students, and all of the theatre staff are available for discussion and conference. For further information consult the theatre office.

Students contemplating a career in the theatre should see the announcement on the Program in the Arts, page 93, and should consult the Director of the Playhouse at the earliest possible time.

There is no major or minor in Theatre, but students may concentrate on theatre either through the English Department or the Program in the Arts.

Among the courses concerned with the theatre are these, described in detail in the departmental announcements. For other courses offered in the University, please consult the Director of the Playhouse.

DANCE

61x, 62y. Dance Workshop I.
S. Genter.

63x. Form in Dance Composition.
J. Soares.

64y. Content in Dance Composition.
J. Soares.

65x, 66y. History of the Dance.
J. Roosevelt.

71x, 72y. Dance Workshop II.
J. Soares.

74y. Contemporary Choreographers and Their Works.
Dance Staff.

Offered in alternate years. Offered in 1981-1982.

76y. Critical Writing on Dance.
T. Tobias.
Not offered in 1981-82.

CLASSICS

Classical Literature V 3123y. Greek Drama and its Influences.
H. Bacon.

Greek V 3305x. Tragedy.
T. MacCary.
Offered in alternate years. Offered in 1982-83.

Greek V 3307x. Comedy.
Staff.
Offered in alternate years. Offered in 1981-1982.

ENGLISH

13x, 14y. Dramatic Writing.
H. Teichmann.

21x. The Uses of Speech.
E. Caughran.

24y. Oral Interpretation of Literature.
E. Caughran.

27x. Public Speaking.
R. Norman.

28y. Persuasive Speaking.
R. Norman.

29x. History of the Theatre: Aeschylus to Ibsen.
L. Castaños and Theatre Staff.

30y. Modern Theatre: An Introduction.
L. Castaños and Theatre Staff.

31x, 32y. Contemporary Theatre.
L. Castaños.

33x, 34y. Play Production.
K. Janes and D. Parichy.

35x, 36y. The Actor's and Director's Interpretation of Dramatic Literature.
K. Janes.

37x, 38y. Musical Ensemble Theatre.
S. Kaplan and guests.

63x, 64y. Shakespeare.
D. Robertson and R. Patterson.

69y. English Drama: 900-1642.
R. Patterson.

86y. Modern Drama.
B. Ulanov.
Offered in alternate years. Offered in 1982-1983.

FRENCH

16y. Advanced Oral French.
M. Levowitz.

34y. The French Theater of the Seventeenth Century.
R. Geen
Offered in alternate years. Offered in 1982-83.

39y. Twentieth-Century French Theater.
R. Geen.
Offered in alternate years. Offered in 1981-1982.

48y. Introduction to Literary Semiotics.
A. Boyman.

GERMAN

15x. Goethe.
G. Sakrawa.
Offered in alternate years. Offered in 1981-1982.

18y. Schiller's Dramas.
B. Bradley.
Offered in alternate years. Offered in 1982-83.

25y. German Prose and Drama from Büchner to Nietzsche.
G. Sakrawa.
Offered in alternate years. Offered in 1981-1982.

26y. Modern German Theatre.
B. Bradley.
Offered in alternate years. Offered in 1982-83.

36x. Goethe's Faust.
G. Sakrawa.
Offered in alternate years. Not offered in 1981-82.

46y. German Literature in the Eighteenth Century.
G. Sakrawa.
Offered every three years. Not offered in 1981-82.

50x. Brecht and Grass.
B. Bradley.
Offered in alternate years. Not offered in 1981-82.

ITALIAN

V 3642y. Studies in Contemporary Italian-Arts: Italian Film.
P. D'Acierno.
Offered in alternate years. Not offered in 1981-82.

MEDIEVAL AND RENAISSANCE STUDIES

81x. Italian Renaissance Courts and the Theater (1400-1600).
M. Lorch and H. Doris.
Offered every three years. Offered in 1982-83.

MUSIC

V 1005y. The Opera.
J. Beeson.

Urban Studies

Office: 408 Lehman Hall

Telephone: 280-5097, 2159

This program is supervised by the Committee on Urban Studies:

Professor of Political Science

Demetrios Caraley (Chairman)

Professor of Anthropology

Paula G. Rubel.

Professor of English

Barry Ulanov

Professor of Geography

Leonard Zobler

Professor of Sociology

Bernard Barber

Professor of Economics

Deborah D. Milenkovich

Assistant Professor of Urban Studies and Political Science

Ester Fuchs (Program Coordinator)

The purpose of the Urban Studies Program is to develop understanding of the basic institutions, problems and achievements of city life.

REQUIREMENTS FOR THE MAJOR

A major in urban studies can be taken only in conjunction with a concentration in one of the regular departments. Normally the student chooses as major adviser the member of the committee from the department in which she intends to concentrate.

In order to major in Urban Studies a student must fulfill the following requirements:

a) Eight courses distributed as follows:

One course dealing primarily with urban subject matter in each of three of the following departments from among those courses indicated:

Anthropology V 3100	<i>Urban Societies</i>
Economics W 3228	<i>The Urban Economy</i>
History W 4673 or W 4674	<i>American Urban History</i>
Political Science V 3313	<i>American Urban Politics</i>
Sociology V 3265 or Sociology V 3324 (or their equivalents)	<i>Minorities in American Life</i> <i>Urban Sociology</i>

One course dealing primarily with urban subject matter from a list approved by the committee in **each of two** other departments, such as art history, English, geography, psychology, biology, architecture, and urban planning. The list of specific courses and of the departments that offer concentrations for urban studies majors is available at the office of the Chairman and of the Program Coordinator.

Urban Studies 45-46	<i>Junior Colloquium</i>
Urban Studies 64	<i>Senior Colloquium in Urban Studies</i>

and

b) The satisfactory completion of a concentration in one of the participating departments consisting of not fewer than **five** courses and the writing in that department of a senior thesis on an urban topic to be approved by the committee.

REQUIREMENTS FOR THE MINOR

There is no minor in Urban Studies.

COURSES OF INSTRUCTION

35x. Colloquium-Workshop in Urban Administration and Management.

Processes of administration and management in urban organizations. Executive leadership, decision-making, bureaucracy, budgeting and personnel. Resources of New York City utilized to gain firsthand experience of administrative and managerial processes through internships.

—Staff.

Prerequisite: Political Science 1 or V 3313, or the equivalent.

Enrollment limited to ca. 20 students.

4 points.

Tu 2:10-4:00.

45x-46y. Junior Colloquium in Urban Studies.

Autumn Term: Urbanization, using various methods, concepts, and materials. Origin and current status of urban problems. Spring Term: Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, education, poverty, transportation, and health.—45: J. Chambers; 46: Staff.

Prerequisite: permission of the instructor.

Enrollment limited to 15-20 students.

4 points.

45: W 2:10-4:00.

46: Tu 11:00-12:50.

64y. Senior Colloquium in Urban Studies.

Future prospects of cities and metropolitan areas; reports on research being conducted for the senior thesis in the department of concentration.—Staff.

Open only to senior majors.

4 points.

W 2:10-4:00.

Women's Studies

Office: 413 Lehman Hall

Telephone: 280-2159

280-4350

This program is supervised by the Committee on Women's Studies:

Assistant Professor of Economics

Bettina Berch²

Professor of Psychology

Lila Braine

Assistant Professor of Biology

Julia Chase

Director of Experimental Studies Program

Joan Dulchin

Assistant Professor of Classics

Helene Foley

Professor of French

Tatiana Greene

Professor of English (Columbia)

Carolyn G. Heilbrun

Professor Emeritus of Sociology

Mirra Komarovsky

Professor of English

Maire J. Kurrik³

Adjunct Assistant Professor of Women's Studies

Johanna Lessinger

Associate Professor of Women's Studies

Nancy K. Miller (Chairman)

Associate in Dance

Cynthia Novack

Director of the Education Program

Susan R. Sacks

Associate Professor of Spanish

Marcia Welles

Professor of History

Suzanne F. Wemple (Acting Chairman)³

Director of the Women's Center

Jane Gould

Archivist and Technical Services Librarian

Patricia K. Ballou

Representative from Health and Society Program

Maxine Silverman

Student Members

Elisha Parrish, Marilyn Scott

¹Absent on leave, 1981-82

²Absent on leave, Autumn Term

³Absent on leave, Spring Term

Women's Studies

The Women's Studies Program is an interdisciplinary program for students who wish to explore the basic questions raised by the new scholarship on women. Some of the issues touched upon in this field are: sex roles, sex differences, and the concepts of femininity and masculinity; the roles of women in culture and society, past and present, and their implications for the roles of men; questions about the distribution of power, work, and resources in the public and private domains; and the symbolic and religious place of femininity and masculine imagery.

Early in their sophomore year, interested students should consult the Chair or any one of the faculty members teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Complementing the Women's Studies Program, the Barnard Women's Center maintains an extensive and expanding resource collection on women's issues. The Center also sponsors monthly women's issues, luncheons, and a yearly conference, *The Scholar and the Feminist*, devoted to the exploration of the relationship of feminist studies to traditional scholarship. The Reid Lectureship brings to the campus distinguished women who have proved themselves to be responsive to women's concerns. The Women's Counseling Project is a citywide referral service, specializing in the areas of health, sexuality, employment, therapy and legal problems.

The Barnard Library's Overbury Collection of American women authors is an important research resource for Women's Studies. There are many additional programs focusing on women—film and video festivals, poetry workshops, panel discussions and art exhibitions. Students are also encouraged to partake in organized feminist activities and to use the rich resources of the feminist movement in New York City.

REQUIREMENTS FOR THE MAJOR

Majors in the Program are trained in interdisciplinary research skills, and focus their studies in one of two areas of specialization: history/humanities or the social sciences. An individual area of study may be developed, in special cases, in consultation with a member of the Women's Studies Committee. The major in Women's Studies is taken in conjunction with a concentration in one of the departmental disciplines.

The requirements for the major are 14 courses to be distributed as follows:

Women's Studies 11	<i>Major Texts of Feminist Tradition</i>
Women's Studies 12	<i>Colloquium in Women's Studies</i>
Women's Studies 21-22	<i>Senior Research Seminar</i>

5 other courses in Women's Studies (see listing below), at least three in the student's area of specialization and at least one in another area; and

5 courses other than Women's Studies courses in the department of the student's concentration, to be selected in consultation with a member of that department.

The thesis, Women's Studies 21-22, provides an opportunity for senior majors to engage in original, interdisciplinary research, and to bring to bear the theoretical emphasis of Women's Studies scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credit as Women's Studies 99, *Independent Study*.

The Program encourages joint degree programs, or combined and double majors.

Students have access to Columbia graduate courses, as well as V-courses, since some cover special areas not otherwise available (e.g., history of Jewish women).

Women's Studies

REQUIREMENTS FOR THE MINOR

No minor is offered in Women's Studies.

COURSES OF INSTRUCTION

11x. Major Texts of the Feminist Tradition.

Central themes in the feminist tradition explored through reading of the classic texts. —J. Lessinger.

4 points.

Tu 10:00-11:50.

12y. Colloquium in Women's Studies.

A critique of traditional knowledge based on the new interdisciplinary research on women in such fields as psychology, biology, literature, anthropology, and history. Guest lecturers will discuss their recent work.—J. Lessinger.

Permission of the instructor recommended.

4 points.

Tu 2:10-5:00

20y. The Invisible Woman in Literature: The Lesbian Literary Tradition.

The lesbian experience from an interdisciplinary perspective. Methods of research and analysis, utilizing historical documentation, psychological models, literature and the arts. Cultural and social developments in the 19th and 20th centuries.

Offered in alternate years. Offered in 1982-83.
3 points.

21x-22y. Senior Seminar.

Individual research in Women's Studies conducted in consultation with the instructor. The results of each research project submitted in the form of the senior essay, and presented to the seminar.—Staff.

Prerequisites: Courses 11 and 12.

Enrollment limited to senior majors.

4 points.

Hours to be arranged plus individual consultation with the instructor.

99x, 99y. Independent Research.

N. Miller.

3 points.

Hours to be arranged.

Anthropology-Women's Studies V 3039x. Women in the Third World.

Comparison of women's social and economic roles in both traditional and modernizing societies. Women's roles in the family, community and class structure through examination of a series of ethnographies.—J. Lessinger.

Prerequisites: An introductory anthropology course or Women's Studies 11 or the permission of the instructor.

Offered in alternate years. Offered in 1981-82.
3 points.

Tu Th 4:10-5:25.

WOMEN'S STUDIES COURSES IN OTHER DEPARTMENTS AND PROGRAMS.

Students should consult the departmental and program listings for course descriptions.

Anthropology V 3020y. Men's and Women's Speech.

Offered in alternate years. Not offered in 1981-82.

Anthropology V 3021x. Sex Roles in Cross-Cultural Perspective.

Instructor to be announced.

Art History 72y. Women in Art.

J. Bernstock.

Classical Civilizations V 3158y. Women in Antiquity.

H. Foley.

Offered in alternate years. Offered in 1982-83.

Economics 10y. Sex, Discrimination, the Division of Labor.

B. Berch.

Economics-History 56y. History of Women's Work.

B. Berch.

Education 32y. Contemporary Issues in Education.

S. Sacks.

English 40x. II. Women and Literature.

J. Sherry.

English 40y. VIII. The Human Body in Modern Literature and Philosophy.

M. Kurrik.

Not offered in 1981-82.

English 40y. IX. Major British Women Novelists.

W. Fairey.

English 97x. V. Literary Theory.

M. Kurrik.

English C 3273x. Studies in American Literature and Culture.

A. Douglas.

English G 6510y. Feminist Perspectives.

C. Heilbrun.

Women's Studies

Experimental Studies 3x. Contemporary Feminist Thought.
J. Dulchin.

French 43x. French Women Writers.
T. Greene.

French 52y. Seminar: George Sand.
T. Greene.

German 54y. German Intellectual History: Hannah Arendt.
Not offered in 1981-82.

German 55y. Women in Major Works of German Literature.
R. Ayre.

Health and Society 13x. Women, Health, and Health Care.
T. Rogers.

History 6x. The History of Women in the High Middle Ages.
S. Wemple.
Offered in alternate years. Offered in 1982-83.

History 32y. Women in Revolutionary Paris: 1789-1795.
D. Levy.
Not offered regularly. Not offered in 1981-82.

History 81y. History of Women from Colonial Times to 1890.
A. Baxter.
Offered every two years. Offered in 1982-83.

History 82y. History of Women in America since 1890.
A. Baxter.

History W 3992y. Women in African Society since 1870.
M. Wright.

Medieval and Renaissance Studies 79x, 80y. Myth and History: Women, Family, and Society in the High Middle Ages.
R. Ayre, S. Wemple.

Medieval and Renaissance Studies 86y. Women in the Middle Ages: Ideals and Reality.
L. Ebin, J. Rosenthal, and S. Wemple.
Not offered regularly. Not offered in 1981-82.

Psychology 54x. Hormones and Reproductive Behavior.
R. Silver.

Psychology 70y. II. Human Sexuality.
W. McKenna.

Psychology 71x. Psychology and Women.
J. Doron.

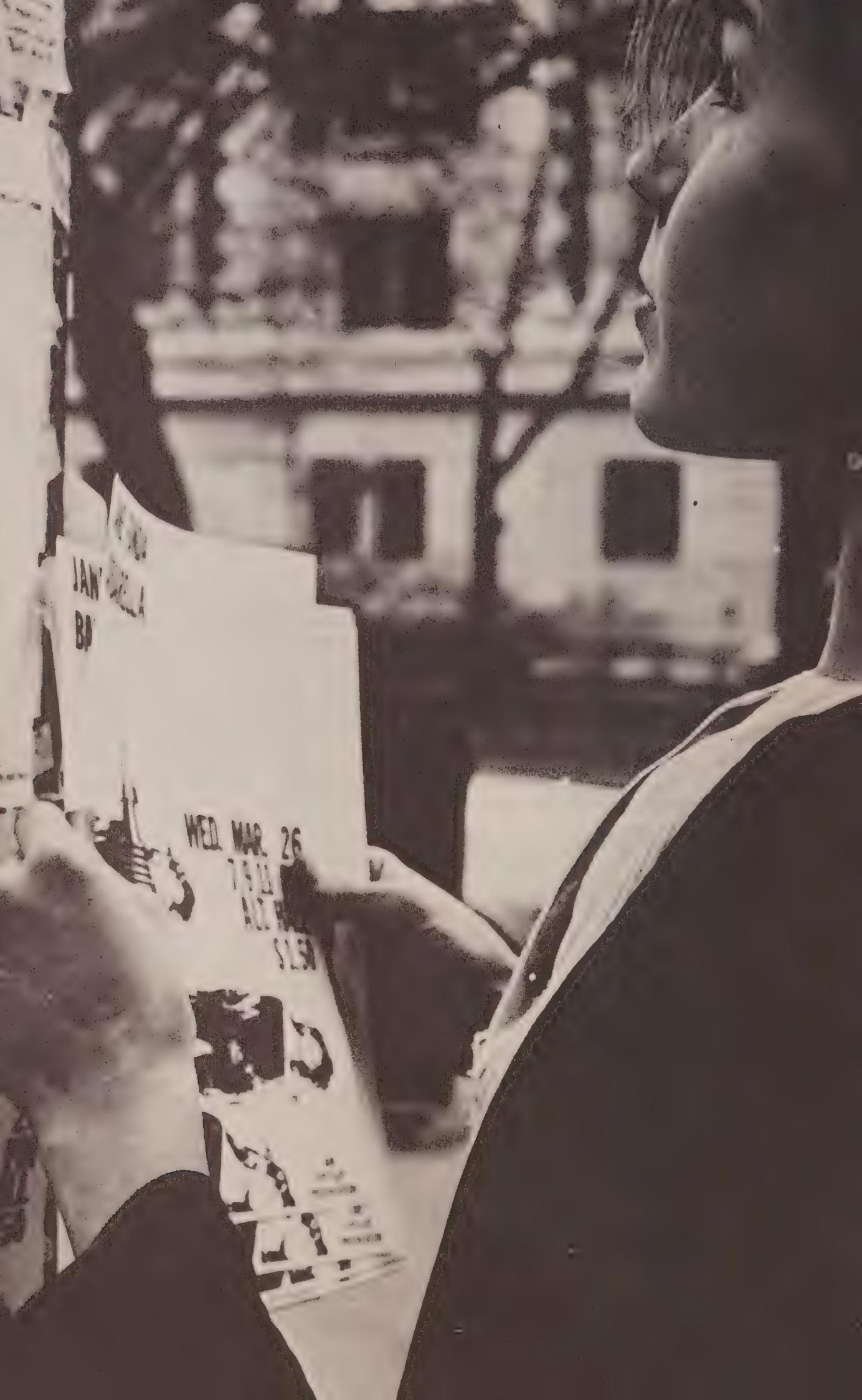
Religion V 3700y. Women and Religion.
Instructor to be announced.

Sociology V 3303y. Female and Male: A Sociological Perspective.
M. Komarovsky.

Sociology V 3555y. Sociology of Family Institutions.
V. Zelizer.

Sociology G 4018x. Sex Roles and Society.
V. Zelizer.

Spanish 11x. I. The Female Figure in Contemporary Latin-American Literature.
M. Coddou.



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XIII. Organization

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The Faculty of Barnard College

Ellen V. Futter, 1980, President of Barnard College and Dean in the University
B.A., Barnard; J.D., Columbia

Charles S. Olton, 1977, Vice President for Academic Affairs and Dean of the Faculty, and Associate Professor of History
B.A., Wesleyan; M.A., Ph.D., University of California at Berkeley

Barbara S. Schmitter, 1957, Vice President for Student Affairs and Dean of Studies and Associate Professor of Psychology
A.B., Nebraska; M.A., Columbia

Lawrence J. Aber, 1981, Assistant Professor of Psychology
B.A. Harvard; M.A., Yale; Ph.D., Yale

Helene F. de Aguilera, 1972, Assistant Professor of Spanish
A.B., Barnard; M.A., New York University; Ph.D., Columbia

Philip V. Ammirato, 1974, Associate Professor of Biological Sciences
B.A., City College of New York; Ph.D., Cornell

Alice H. Amsden, 1977, Assistant Professor of Economics
B.S., Cornell; Ph.D., London School of Economics

David D. Arsen, 1981, Assistant Professor of Economics
B.A., University of Michigan; Ph.D., University of California at Berkeley

Marina Astman, 1969, Professor of Russian
Ph.D., Columbia

Helene H. Bacon, 1961, Professor of Classics
A.B., Ph.D., Bryn Mawr

James M. Baker, 1977, Assistant Professor of Music
B.A., M.A., Ph.D., Yale

Patricia K. Ballou, 1961, Archivist and Technical Services Librarian
B.A., Oberlin; B.S., Columbia School of Library Science

Organization

Peter D. Balsam, 1975, Assistant Professor of Psychology
B.A., State University of New York at Stony Brook; M.A., Ph.D., North Carolina

Bernard Barber, 1952, Professor of Sociology
A.B., M.A., Ph.D., Harvard

Marlene Barsoum, 1980, Instructor in French
B.A., M.A., Queens College

Annette K. Baxter, 1952, Adolph S. and Effie Ochs Professor of History
A.B., Barnard; M.A., Smith, Radcliffe; Ph.D., Brown

Alfred Bendixen, 1979, Assistant Professor of English
B.A., State University of New York at Binghamton; M.A., Ph.D., North Carolina

Bettina Berch, 1975, Assistant Professor of Economics
B.A., Barnard; Ph.D., University of Wisconsin

Joan S. Birman, 1973, Professor of Mathematics
A.B., Barnard; M.A., Columbia; Ph.D. New York University

Jeffrey M. Blustein, 1974, Assistant Professor of Philosophy
A.B., Minnesota; Ph.D., Harvard

Vilma Bornemann, 1971, Associate in Spanish
A.B., Barnard; M.A., Columbia

Anne Boyman, 1979, Instructor in French
B.A., M.A., Ph.D., Toronto

Brigitte Bradley, 1962, Professor of German
A.B., William and Mary; D. d'Universite, Strasbourg; M.A., Ph.D., Columbia

Lila Ghent Braine, 1974, Professor of Psychology
B.A., M.A., Ph.D., McGill

Joseph Brami, 1981, Instructor in French
B.A., M.A., Sorbonne; Ph.D., New York University

Joel P. Brereton, 1974, Assistant Professor of Religion
B.A., Kenyon; M.Phil., Ph.D., Yale

Andre C. Burgstaller, 1977, Assistant Professor of Economics
Licence, University of Geneva; M.A., Toronto; Ph.D., Columbia

Lynda J. Calkins-McKenna, 1979, Associate in Physical Education and Coach in Intercollegiate Athletics
B.A., Adrian College; M.S., University of Massachusetts

Demetrios Caraley, 1961, Professor of Political Science and Janet H. Robb Professor of the Social Sciences
A.B., Ph.D., Columbia

Patricia Carpenter, 1961, Professor of Music
A.B., California; Ph.D., Columbia

Luz Castaños, 1976, Associate in Theatre
A.B., M.A., Hunter

Elizabeth Louise Caughran, 1956, Associate in English
A.B., Russell Sage; M.A., Columbia

Sally Chapman, 1975, Associate Professor of Chemistry
A.B., Smith; Ph.D., Yale

Julia Chase, 1976, Assistant Professor of Biological Sciences
A.B., Smith; Ph.D., Indiana

Joy Chute, 1964, Adjunct Professor of English

Marcelo Coddou, 1975, Associate Professor of Spanish
M.A., Chile; Ph.D., Madrid

Organization

Elizabeth Corbett, 1969, Librarian
B.A., Wellesley; S.M., M.L.S., Simmons

James Crapotta, 1975, Assistant Professor of Spanish
B.A., Queens; M.A., Ph.D., Harvard

Sally Cummins, 1981 Assistant Professor of Physics
B.A., Wellesley; M.A., Radcliff; Ph. D., Columbia

Mary Curtis, 1979, Associate in Physical Education and Coach in Intercollegiate Athletics
B.S., Western Montana College; M.A., University of Iowa

Dennis G. Dalton, 1969, Professor of Political Science
A.B., Rutgers; M.A., Chicago; Ph.D., London

Elizabeth Dalton, 1965, Assistant Professor of English
A.B., California; M.A., Ohio State; Ph.D., Columbia

Flora S. Davidson, 1973, Assistant Professor of Political Science
A.B., Barnard; M. Phil., Ph.D., Columbia

Gregory DeFreitas, 1980, Assistant Professor of Economics
B.A., Stanford; M.A., M.Phil., Ph.D., Columbia

Elyane Dezon-Jones, 1981, Assistant Professor of French
B.A., Lycee Limoges; M.A., Poitiers; Ph.D., University of Paris IV

Marjorie Housepian Dobkin, 1957-59; 1960, Associate in English
A.B., Barnard; M.A., Columbia

Hubert Doris, 1957, Professor of Music
A.B., Harvard; M.A., Columbia

Julie Doron, 1977, Assistant Professor of Psychology
B.A., Cornell; M.A., M. Phil., Ph.D., Columbia

Patricia L. Dudley, 1959, Professor of Biology
A.B., M.A., Colorado; Ph.D., Washington

Joan Dulchin, 1980, Director and Lecturer of Experimental Studies
B.A., Barnard; Ph.D., Columbia

Lois A. Ebin, 1969-76; 1978, Associate in English
A.B., Smith; M.A., Ph.D., Columbia

Wendy W. Fairey, 1980, Adjunct Assistant Professor of English
B.A., Bryn Mawr; M.A., Ph.D., Columbia

Duncan K. Foley, 1977, Professor of Economics
B.A., Swarthmore; Ph.D., Yale

Helene Peet Foley, 1979, Assistant Professor of Classics
B.A., Swarthmore; M.A.T., M.A., Yale; Ph.D., Harvard

Jean E. Follansbee, 1979, Associate in Physical Education
B.S., State University of New York at Cortland; M.S., University of Massachusetts

Richard M. Friedberg, 1968, Professor of Physics
A.B., Harvard; M.A., Ph.D., Columbia

Serge Gavronsky, 1960, Professor of French
A.B., M.A., Ph.D., Columbia

Renée Geen, 1956, Professor of French
A.B., Brooklyn; M.A., Wisconsin; Ph.D., Columbia

Sandra Genter, 1961, Associate Professor of Dance
A.B., Wisconsin; M.A., Columbia

Enrique A. Giordano, 1974, Assistant Professor of Spanish
M.A., Ph.D., Pennsylvania

Organization

Rebecca Goldstein, 1976, Assistant Professor of Philosophy
A.B., Barnard; Ph.D., Princeton

Marjorie N. Greenberg, 1978, Associate in Physical Education and Director of Athletics
B.S., Douglass; M.A., Columbia

Tatiana Greene, 1946, Professor of French
Candid. en Droit, Brussels; M.A., Ph.D., Columbia

Dorothy T. Gregory, 1977, Assistant Professor of Modern Greek
B.A., M.A., M.Phil., Ph.D., Columbia

Richard F. Gustafson, 1965, Professor of Russian
A.B., Yale; Ph.D., Columbia

Suzanne Hampton, 1980, Assistant Professor of Biology
B.A., Drew; M.S., Tulane; Ph.D., University of Texas

John Harer, 1980, Assistant Professor of Mathematics
B.A., Haverford; Ph.D., University of California at Berkeley

Marilyn Harran, 1976, Assistant Professor of Religion
B.A., Scripps; M.A., Ph.D., Stanford

Giselle Harrington, 1972, Associate in Education
A.B., Syracuse; M.S., Columbia

Paul Hertz, 1979, Assistant Professor of Biology
B.S., Stanford; M.A., Ph.D., Harvard

Abby Herzog, 1980, Associate in Physical Education
B.A., State University of New York at Cortland; M.A., City University of New York, Lehman College

Sylvia A. Hewlett, 1974, Assistant Professor of Economics
B.A., M.A., Cambridge; Ph.D., London

Toby Berger Holtz, 1971, Lecturer in Geography
A.B., Barnard; M.A.T., Harvard; Ed.D., Columbia

Barry M. Jacobson, 1974, Associate Professor of Chemistry
B.A., Chicago; Ph.D., Harvard

Kenneth H. Janes, 1961, Professor of English and Director of Minor Latham Playhouse

Peter H. Juviler, 1964, Professor of Political Science
B.E., M.E., Yale; M.A., Ph.D., Columbia

Tatiana Keis, 1967, Reserve Room Librarian
A.B., M.L.S., Columbia

Grace W. King, 1960, Lecturer in Chemistry
A.B., Maine; Ph.D., Yale

Ruth M. Kivette, 1952, Professor of English
A.B., Barnard; M.A., Ph.D., Columbia; B.D., Union Theological Seminary

Morton Klass, 1965, Professor of Anthropology
A.B., Brooklyn; Ph.D., Columbia

Stephanie Krstulovic, 1962, Technical Services Librarian
School of Commerce, Yugoslavia

Maire J. Kurrik, 1968, Professor of English
A.B., Vassar; Ph.D., Harvard

Sue Howard Larson, 1969, Professor of Philosophy
A.B., Ph.D., Stanford

Lydia H. Lenaghan, 1962, Associate Professor of Classics
A.B., Barnard; M.A., Ph.D., Bryn Mawr

Organization

Leslie Lessinger, 1977, Assistant Professor of Chemistry
B.A., M.A., Ph.D., Harvard

Darline G. Levy, 1973, Assistant Professor of History
A.B., Barnard; Ph.D., Harvard

Maristella de Panizza Lorch, 1951, Professor of Italian
Dott. In Lett. e. Filos., Rome

Anne W. Lowenthal, 1977, Assistant Professor of Art History
A.B., Brown; M.A., Ph.D., Columbia

Joseph L. Malone, 1967, Professor of Linguistics
A.B., M.A., Ph.D., University of California at Berkeley

Joseph Masheck, 1961, Assistant Professor of Art History
A.B., M.A., Ph.D., Columbia

Robert A. McCaughey, 1969, Professor of History
A.B., Rochester; M.A., North Carolina; Ph.D., Harvard

John Meskill, 1960, Professor of Oriental Studies
A.B., Harvard; Ph.D., Columbia

Deborah D. Milenkovich, 1965, Professor of Economics
A.B., Radcliffe; Ph.D., Columbia

Barbara S. Miller, 1968, Professor of Oriental Studies
A.B., Barnard; M.A., Columbia; Ph.D., Pennsylvania

Debra Lynn Miller, 1968, Assistant Professor of Political Science
B.A., University of California; Ph.D., Harvard

Kathleen Moore, 1976, Associate in Physical Education and Coach in Intercollegiate Athletics
B.A., Michigan; M.A., Columbia

Joann Ryan Morse, 1957, Professor of English
A.B., Vassar; M.A., Yale

Mary Mothersill, 1963, Professor of Philosophy
A.B., Toronto; M.A., Ph.D., Radcliffe

Cynthia Novack, 1978, Associate in Dance
B.A., University of California at Berkeley

Barbara Novak, 1958, Professor of Art History
A.B., Barnard; M.A., Ph.D., Radcliffe

David G. Nowak, 1979, Instructor in French
B.A., M.A., Ph.D., Wisconsin

Dorothea Nyberg, 1968, Associate Professor of Art History
A.B., Toronto; M.A., Ph.D., New York University

Stanley E. Nyberg, 1979, Assistant Professor of Psychology
B.S., Massachusetts; Ph.D., State University of New York at Stony Brook

Elaine H. Pagels, 1970, Professor of Religion
A.B., M.A., Stanford; Ph.D., Harvard

Remington P. Patterson, 1955, Professor of English
A.B., M.A., Ph.D., Yale

Marion R. Philips, 1945-55; 1958, Professor of Physical Education
A.B., Hunter; M.A., Columbia

Marie-Claire Picher, 1979, Instructor in French
B.A., Trinity; M.A., Middlebury

Richard M. Pious, 1973, Associate Professor of Political Science
B.A., Colby; Ph.D., Columbia

Organization

Anne Lake Prescott, 1959-62; 1963, Professor of English
A.B., Barnard; M.A., Ph.D., Columbia

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B.S., M.Ed., State University of New York; Ed.D., University of Georgia

Nicholas Rango, 1978, Samuel R. Milbank Assistant Professor of Health and Society
B.S., St. Louis; M.D., Northwestern

Jeanette Schlottmann Roosevelt, 1951-58; 1962, Professor of Dance
B.S., M.A., Texas Women's University

Jane H. Rosenthal, 1952-55; 1971, Associate Professor of Art History
A.B., Douglass; Ph.D., Columbia

Marian L. Rosenwasser, 1975, Associate in Physical Education
B.S., City College of New York; M.S., Massachusetts

Abraham Rosman, 1966, Professor of Anthropology
A.B., City College of New York; Ph.D., Yale

Perla Rozencvaig, 1977, Instructor in Spanish
B.A., M.A., Columbia

Paula G. Rubel, 1965, Professor of Anthropology
A.B., Hunter; Ph.D., Columbia

Susan R. Sacks, 1971, Director of Education Program
A.B., Northwestern; M.A., Western Reserve; Ph.D., Columbia

Gertrud M. Sakrawa, 1952, Associate Professor of German
M.A., Columbia; Ph.D., Vienna, Columbia

John E. Sanders, 1969, Professor of Geology
A.B., Ohio Wesleyan; Ph.D., Yale

Anatol K. Sapronow, 1966, Associate in Russian
Russian Gymnasium, Munich

Marianna Greene Sapronow, 1967, Associate in Russian
Russian Gymnasium, Munich

Celeste Schenck, 1979, Associate in English
A.B., Princeton

Flora Schiminovich, 1977, Associate in Spanish
B.A., City College of New York; M.A., Hunter

Peter Schubert, 1970, Associate in Music
A.B., M.A., Columbia

Alan Segal, 1980, Associate Professor of Religion
B.A., Amherst; M.A., Brandeis; Ph.D., Yale

Bernice Segal, 1958, Professor of Chemistry
A.B., Radcliffe; Ph.D., Columbia

Mirella d'Ambrosio de Servodidio, 1964, Professor of Spanish
A.B., Barnard; M.A., Ph.D., Columbia

James Sherry, 1979, Associate in English
A.B., University of California at Riverside; M.A., Ph.D., Johns Hopkins

Marvin Shulman, 1968-69; 1975, Associate in German
B.A., Coe; M.A., Columbia

Rae Silver, 1976, Associate Professor of Psychology
B.A., McGill; M.A., City University of New York; Ph.D., Rutgers

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B.S., Juilliard; M.A., Columbia

Organization

Natalie Sonevitsky, 1959, Reference Librarian
A.B., New Rochelle; M.S., Columbia

Quandra P. Stadler, 1970, Associate in English
A.B., Antioch

Dennis Stevenson, 1980, Assistant Professor of Biology
B.A., M.A., Ohio; Ph.D., University of California at Davis

Sandra Stingle, 1967, Lecturer in Psychology
A.B., Barnard; Ph.D., Columbia

Howard M. Teichmann, 1946, Adjunct Professor of English
A.B., Wisconsin

Patricia Terry, 1958, Adjunct Associate Professor of French
A.B., Barnard; M.A., Ph.D., Columbia

Zoya A. Trifunovich, 1959, Associate in Russian
B.S., M.A., Columbia

Mary Ellen Tucker, 1970, Acquisitions Librarian
B.A., Barnard; M.L.S., Columbia

Barry Ulanov, 1951, Professor of English
A.B., Ph.D., Columbia; Litt.D., Villanova

Joan E. Vincent, 1968, Professor of Anthropology
B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia

Frederick E. Warburton, 1963, Associate Professor of Biology
B.Sc., M.Sc., Ph.D., McGill

Marcia L. Welles, 1970, Associate Professor of Spanish
A.B., Barnard; M.A., Middlebury; Ph.D., Columbia

Suzanne F. Wemple, 1966, Professor of History
A.B., University of California at Berkeley; M.L.S., Ph.D., Columbia

Katherine E. Wilcox, 1961, Associate in Education
A.B., City College of New York

Christina L. Williams, 1980, Assistant Professor of Psychology
B.A., Williams; Ph.D., Rutgers

Chilton Williamson, 1942, Professor of History
A.B., M.A., Ph.D., Columbia

Viviana A. Zelizer, 1978, Assistant Professor of Sociology
B.A., Rutgers; M.A., M.Phil. Ph.D., Columbia

Leonard Zobler, 1955, Professor of Geography
B.S., M.S., Washington State; Ph.D., Columbia

FACULTY EMERITI

Helen R. Downes, 1933-1960, Professor Emeritus of Chemistry
Ph.D.

Amelia A. de del Rio, 1930-1962, Professor Emeritus of Spanish
Ph.D.

Milicent C. McIntosh, 1947-1962, President Emeritus
Ph.D., LL.D., Litt.D., L.H.D.

Thomas P. Peardon, 1923-1965, Professor Emeritus of Political Science
Ph.D.

Lucyle Hook, 1948-1967, Professor Emeritus of English
Ph.D.

Organization

Eugenio Florit, 1945-1969, Professor Emeritus of English
D. en D.

Virginia D. Harrington, 1942-1969, Professor Emeritus of History
Ph.D.

Jean T. Palmer, 1946-1969, General Secretary Emeritus
A.B.

Henry A. Boorse, 1937-1970, Professor Emeritus of Physics and Dean of the Faculty
Ph.D.

Julius S. Held, 1936-1970, Professor Emeritus of Art History
Ph.D.

Mirra Komarovsky, 1934-1970, Professor Emeritus of Sociology
Ph.D.

Emma Dietz Stecher, 1945-1971, Professor Emeritus of Chemistry
Ph.D.

Theodor H. Gaster, 1966-1972, Professor Emeritus of Religion
Ph.D., D.D., L.H.D., Litt. D.

Eleanor Rosenberg, 1953-1973, Professor Emeritus of English
Ph.D.

Raymond J. Saulnier, 1938-1973, Professor Emeritus of Economics
Ph.D., LL.D.

George Woodbridge, 1960-1973, Professor Emeritus of History
Ph.D.

Marion Hamilton Gillim, 1952-1974, Professor Emeritus of Economics
Ph.D.

Gladys Meyer, 1948-1974, Professor Emeritus of Sociology
Ph.D.

Basil Rauch, 1941-1974, Professor Emeritus of History
Ph.D.

John Kouwenhoven, 1946-1975, Professor Emeritus of English
Ph.D.

Richard Youtz, 1946-1975, Professor Emeritus of Psychology
Ph.D.

Joseph Gerard Brennan, 1947-1976, Professor Emeritus of Philosophy
Ph.D.

Helen Phelps Bailey, 1933-1977, Professor Emeritus of French
Ph.D.

Donald D. Ritchie, 1948-1979, Professor Emeritus of Biological Sciences
Ph.D.

Eleanor M Tilton, 1950-1979, Professor Emeritus of English
Ph.D.

LeRoy C. Breunig, 1953-1980, Professor Emeritus of French
Ph.D.

Richard A. Norman, 1954-1981, Professor Emeritus of English
Ph.D.

David D. Robertson, Jr., 1940-1981, Professor Emeritus of English
Ph.D.

Margarita Ucelay, 1943-1981, Professor Emeritus of Spanish
Ph.D.

Organization

OTHER OFFICERS OF INSTRUCTION

Fernando Alvarez, 1979, Adjunct Assistant Professor of Psychology
B.A., Brooklyn College; M.A., Ph.D., University of California at Riverside

Florence Amar, 1981, Instructor in French
A.B., Barnard; M.A., Columbia

Howard Andrews, 1978, Adjunct Assistant Professor of Psychology
B.A., Richmond College; Ph.D., Rutgers

Lillian Andron, 1980, Instructor in Physical Education
B.A., M.A., New York University

Regina Ayre, 1972, Lecturer in German
B.A., Sir George Williams; M.A., Ph.D., Columbia

Judith Bernstock, 1980, Visiting Assistant Professor in Art History
B.A., Cornell; M.A., Ph.D., Columbia

Constance Brown, 1980, Instructor in English
A.B., Barnard; M.A., Ph.D., Columbia

Diana Chang, 1979, Adjunct Associate Professor of English
A.B., Barnard

Marshall Cohen, 1978, Visiting Professor of Philosophy
B.A., Dartmouth; M.A., Harvard

Constance Colby, 1972, Instructor in English
B.A., M.A., University of Michigan

Joanna L. Cole, 1973, Instructor in English
B.S., Bryn Mawr; M.A., Columbia

Furio Colombo, 1978, Lecturer in Italian
Doctor of Phil. of Law, Turin.

June Ekman, 1977, Instructor in Theatre

Ester F. Fuchs, 1980, Visiting Assistant Professor of Political Science
B.A., Queens College; M.A., Brown

Eva Gans, 1978, Associate in Chemistry
A.B., Barnard

Timothy Gastineau, 1978, Lecturer in French
B.A., M.A., Ph.D., Columbia

David Gitomer, 1981, Lecturer in Oriental Studies
B.A., M. Phil., Columbia

Barbara S. Goodstein, 1967, Associate in Chemistry
A.B., Barnard

Arnold Graber, 1979, Instructor of English
B.A., Harvard; M.A., M. Phil., Columbia

Danielle Haase-Dubosc, 1962, Lecturer at Reid Hall
A.B., Barnard; M.A., Ph.D., Columbia

David Henry, 1974, Instructor in Physical Education

Sally Hess, 1980, Instructor in Dance

Michael Holdowsky, 1978, Instructor in Economics
B.A., Rutgers; M.A., Columbia

Claude Holland, 1980, Instructor in French
B.A., M.A., M.Phil., Columbia

Donald E. Hutchings, 1972, Adjunct Assistant Professor of Psychology
A.B., Lake Forest; M.A., Ph.D., Chicago

Organization

Olympia T. Jebejian, 1969, Associate in Chemistry
B.A., M.S., American University of Beirut

Shirley Kaplan, 1977, Associate in Drama-English
A.A.S., Briarcliff; Diploma, Academie de la Grande Chaumiere

Jerome Kohn, 1980, Lecturer in German
Ph.D., New School of Social Research

Eleanor Leach, 1981, Visiting Professor of Classics
A.B., Bryn Mawr; M.A., Ph. D., Yale

Micheline Levowitz, 1977, Lecturer in French
B.A., Hunter; M.A., Queens; Ph.D., City University of New York

Brunhilde M. Linke, 1975, Instructor in German
B.A., M.A., New York University

Ronnie Lowenstein, 1975, Instructor in Economics
B.A., Guilford College; M.A., Columbia

Ann McCoy, 1981, Visiting Artist
B.F.A., University of Colorado; M.A., University of California at Los Angeles

Albert Murray, 1980, Adjunct Associate Professor in English
M.A., New York University

Richard Neugebauer, 1981, Lecturer in Health and Society
B.A., M.A., Ph.D., Columbia

Brian O'Doherty, 1970, Adjunct Professor of Art History
M.B., M.C.H., D.P.H., University College, Dublin; M.Sc., Harvard

Helena Otsa, 1980, Associate in Chemistry
B.A., University of Buffalo

Dennis B. Parichy, 1969, Instructor in Theatre
B.S., Northwestern

Thomas Perera, 1966, Visiting Associate Professor of Psychology
A.B., M.A., Ph.D., Columbia

Cary Plotkin, 1979, Instructor in English
B.A., Yale; M.A., M. Phil., Columbia

Milton Resnick, 1972, Visiting Artist in Art History

Shanna Richman, 1979, Adjunct Assistant Professor of Psychology
B.A., Antioch; M.A., Hunter College; Ph.D., City University of New York

Donald W. Rogers, 1980, Visiting Professor of Chemistry
A.B., Princeton; M.A., Wesleyan; Ph.D., University of North Carolina

Barbara Schechter, Adjunct Assistant Professor of Psychology
B.A., Sarah Lawrence; M.A., Ph.D., Teachers College

James J. Sherry, 1979, Instructor in English
A.B., University of California at Riverside; M.A., Ph.D., John Hopkins

Beverly Moss Spatt, 1971, Adjunct Associate Professor of Geography
A.B., Pembroke; M.A., Ph.D., New York University

Shulamith Straussner, 1981, Lecturer in Sociology
B.A., City College in New York; M.S.W., Fordham

Carol Swick, 1981, Adjunct Assistant Professor of Geography
B.A., State University of California, Los Angeles; M.A., UCLA;
M.L.A., University of Pennsylvania

Florian Stuber, 1978, Instructor in English
A.B., Columbia

Organization

Timea Szell, 1979, Instructor in English
A.B., Barnard; M.A., Columbia

Robert Winne, 1981, Adjunct Professor of Art History
B.A., M.A., Rensselaer Polytechnic Institute

Clara Ching-Hsien Wu, 1974, Lecturer in Chemistry
B.S., National Taiwan University; M.S., University of Virginia; Ph.D., Carnegie Institute

Officers of Administration

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Dean in the University

Charles S. Olton, Ph.D., Vice President for Academic Affairs and
Dean of the Faculty and Associate Professor of History

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Dorothy C. Weinberger, A.B., Vice President for Public Affairs

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Olga M. Hughes, A.B., Secretary to the Board of Trustees
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Wendy W. Fairey, Ph.D., Associate Dean of the Faculty
Barbara Yamaguchi, Administrative Assistant to the Dean
James Crawford, B.S., Director of Faculty and Government Grants

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Helen Vanides, Director of Budget and Planning
Lewis Wyman, B.A., Research and Planning Assistant

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Luz Castaños, M.A., Class Adviser
Susan Cohn, Ph.D., Assistant to the Vice President
Frances V. Dillon, M.S., Associate Director, Office for Disabled Students
Marjorie H. Dobkin, M.A., Associate Dean of Studies
Toby Berger Holtz, Ed.D., Class Adviser
Nadine Johnson, B.A., Director, HEOP
Grace W. King, Ph.D., Dean for Seniors.
Anya K. Luchow, Ph.D., Dean for Freshmen
Julie V. Marsteller, Dean for Disabled Students
Esther Rowland, M.A., Dean for Pre-professional Students
Marjorie Croes Silverman, Ph.D., Class Adviser
Quandra Stadler, B.A., Class Adviser, Foreign Student Adviser
Sandra Stingle, Ph.D., Class Adviser
Katherine E. Wilcox, B.A., Class Adviser
Richard Youtz, Ph.D., Director, Resumed Education Program

Office of Admissions

R. Christine Royer, M.A., Director
Yael Septee, B.A., Associate Director
Dolores Capece, B.A., Associate Director

Organization

Office of Alumnae Affairs

Irma Moore, A.B., Director
Toni Crowley Coffee, B.A., Editor, *Barnard Alumnae*
Yvonne S. Untch, Records Management Officer

Language Laboratory

Ersi L. Breunig, Director

Wollman Library

Elizabeth M. Corbett, M.S., Librarian
Patricia K. Ballou, B.S., Technical Services Librarian and Archivist
Tatiana Keis, M.S., Reserve Room Librarian
Stephanie M. Krstulovic, Technical Services Librarian
Christina Bickford, M.S.S., Audio Visual Coordinator
Natalie Sonevytsky, M.S., Reference Librarian
Mary Giunta, M.L.S., Assistant Reference Librarian
Mary Ellen Tucker, M.S., Acquisitions Librarian

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Winifred Price, Director
Myrtle Tate, B.S., Manager

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Margaret Montgomery Mitchell, M.S., Director
Amy Diamond Barnes, B.A., Associate Director
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Lucy Cruz Marrero, A.A., Benefits Specialist

Office of Public Relations

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Gail Zarr, B.A., Associate Director

Office of Purchases and Stores

Office of the Registrar

Virginia Shaw, A.B., Registrar
Francine Sardone, B.A., Assistant Registrar

Office of Residential Life

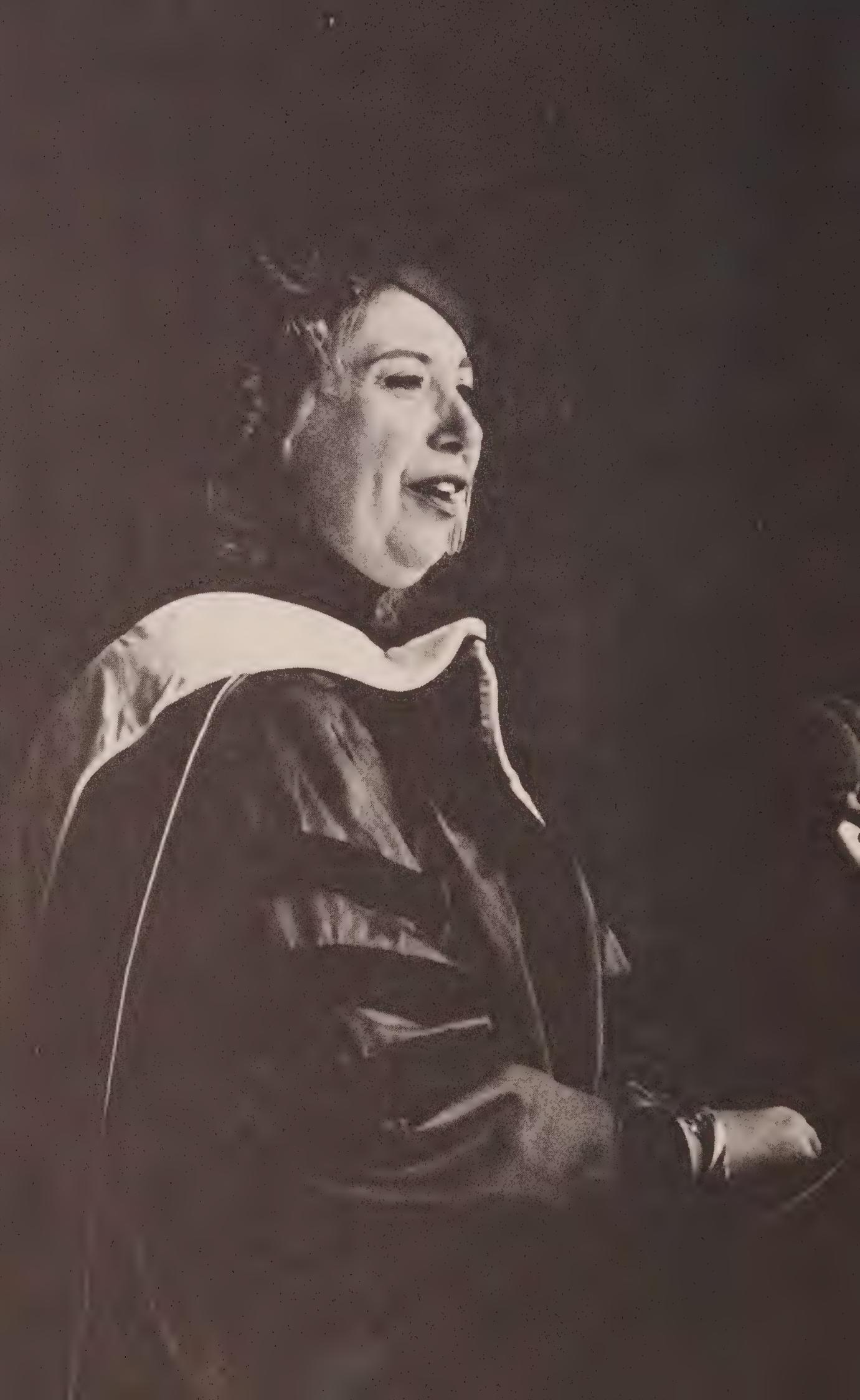
Ione G.S. Gatch, B.A., Director
Rosemarie Dackerman, M.Ed., Associate Director
Edith Phillips, B.A., Resident Director, Brooks, Hewitt, & Reid
Marla Stewart, M.S., Resident Director, Plimpton Hall
Pamela Grant, M.A., Resident Director, 600, 616, 620

Office of Safety and Security

Raymond E. Boylan, Director
Priscilla Wolf, M.A., Assistant Director

Women's Center

Jane S. Gould, M.A., Director
Janie Kritzman, Associate Director



XIV. The Associate Alumnae

The Associate Alumnae of Barnard College is comprised of 20,500 members from all fifty states of the Union and more than seventy-five countries abroad. Members include all who have completed a year or more of study at Barnard and have left in good academic standing as well as those who hold a Barnard degree. There are no alumnae dues. The *Barnard Alumnae* magazine and the *Barnard Reporter* newsletter, and invitations to alumnae events and other annual academic and career programs are sent regularly to Barnard alumnae.

The Associate Alumnae serve the College in three important ways: by keeping local high school students informed about Barnard; by interpreting Barnard to the community in general and by voluntarily aiding in the support of the College.

Alumnae Council, a nationwide group of alumnae leaders, meets annually on campus for the exchange of ideas and to receive updated information on the College so they may continue to represent Barnard effectively.

Over 45 clubs and informal local groups of Barnard alumnae in the United States and abroad form a network that makes it possible for Barnard alumnae to find one another. Alumnae traveling or moving to a new location may contact the Alumnae Office for the names and addresses of alumnae living both within the United States and abroad.

The functions of the Associate Alumnae are handled by a 20 member board elected annually by all Barnard alumnae. Four alumnae are elected to represent the Associate Alumnae on the Board of Trustees of Barnard College. The central office of the Associate Alumnae is in the Alumnae Affairs Office on campus.

Barnard Area Representatives (BARs) are qualified alumnae appointed by the Admissions and Alumnae Offices who act in liaison capacity between the College and prospective students, parents, and high school counselors. BARs frequently attend college information meetings at secondary schools, host informal gatherings for prospective students, and conduct local interviews. High School students considering Barnard and interested in speaking with a BAR may arrange an interview by writing to the individual nearest them. A listing of the BARs is given on the following pages.

Associate Alumnae

Officers of the Associate Alumnae

Renee Becker Swartz, President
Duane Lloyd Patterson, Secretary
Irma Soccia Moore, Director of Alumnae Affairs
Toni Crowley Coffee, Editor, *Barnard Alumnae*
Yvonne S. Untch, Alumnae Records Officer

Directors

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Weslie Resnick
Cecile Singer
Jamienne S. Studley
Shulamith Stromer Talansky
Janice Farrar Thaddeus
Ana del Valle Totti
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Alumnae Trustees

Hilda Minneman Bell
Maureen McCann Miletta
Cecilia Diaz Norris
Renee Becker Swartz

Barnard Area Representatives

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San Diego

M. Elizabeth Ortiz
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San Francisco

Ms. Adela B. Karliner
(relocating, see San Francisco
telephone book for address)

Mrs. Max Semel
928 Castro Street, 94114

Santa Barbara

Emily M. Chervenik
1606 Shoreline Drive, 93109

Canada

Quebec

Mrs. Henry Etingin
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Montreal, H3Y 3A4

Colorado

Boulder

Joan Carey Zier (Mrs. Carl C.)
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Denver

Alice McTammany Fehrenbach
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Lakewood

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Connecticut

Fairfield County

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South Norwalk, 06854

Ridgefield

Louise Restituto Begley
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West Hartford

Susan Fellman
8 Walbridge Road, 06119

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Associate Alumnae

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Twickenham, Middlesex

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Miami Beach

Tobie Siegel (Mrs. Warren)
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Georgia

Atlanta
Mrs. Patrick Finley
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Greece

Athens
Ann Cacoullos
13 Nikes Street
Paradisos Halandri

Hawaii

Kailua, Oahu
Peggy Anne Siegmund
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Chicago
Eva Lynn Hollander
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Mrs. L. J. Moss
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Deborah M. Roach
73 Elm Street, 60611

Lombard

Ms. Jane Stewart Heckman
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Iowa

Des Moines
Margaret M. Brennan
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Milano
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Goodland
Jo Clare Mangus
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See also St. Joseph, MO.

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Joyce Shankman
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Cambridge, 02138
Catherine Weisbrod
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Springfield Area

Ann D. Johnson (Mrs. Charles)
9 Hickory Drive
Florence, 01060

Michigan

Detroit
Denise Jackson Lewis
Personnel Department
316 City County Building, 48226

Grosse Pointe Park

Mrs. Margo C. Parker
1100 Berkshire Road, 48230

Missouri

St. Joseph
Elaine C. Guenther
(Mrs. William H.)
1901 Lovers Lane, 64505

St. Louis Area

Audrey G. DeVoto
1525 Walpole Drive
Chesterfield, 63017

Associate Alumnae

New Jersey

Bergen County

Cheryl Foa Pecorella
107 Walnut Drive
Tenafly, 07670

Millburn

Mrs. Peter S. Dykema
201 Sagamore Road, 07041

Moorestown-South Jersey

Victoria Taylor Robertson
403N Washington Street
Moorestown, 08057

New York

Albany Area

Deborah Schwartz Rapaport
Bender Lane
Glenmont, 12077

Poughkeepsie

Mrs. Lawrence A. Heaton
101 Ferris Lane, 12603

Rochester

Mrs. Marvin N. Goldstein (Athena)
20 Varinna Drive, 14618

Stormville

Kathie Plourde
Rushmore Road, 12582

Woodstock

Jane Elizabeth Allen
20 Patricia Lane, 12498

North Carolina

Greensboro

Nahomi Harkavy (Mrs. Jonathan)
704 Southeastern Building, 27401

Ohio

Cleveland

Lizabeth A. Moody
Cleveland State University, 44120

Hudson

Mitzi Perry-Miller
2449 Cambridge Drive, 44236

Oregon

Astoria

Leslie Dolin
1211 Lexington, 97103

Portland

Marcia Kellmer
1553 SW Upper Hall, 97201

Susan K. Storms (Mrs. Edgar E.)
780 SW Menefee Lane, 97201

Pennsylvania

Philadelphia

Nury Reichert
6 Summit Place, 19128

Pittsburgh

Charlene Reidbord Ehrenwerth
(Mrs. David)
1183 Driftwood Drive, 15243

Wallingford

Mrs. Eugene G. Monaco
126 Westminster Drive
Sproul Estates, 19086

Wynnewood

Nancy E. Charkes
428 Witley Road, 19096
Evangeline Sicalides
307 Haverford Road, 19096

Texas

Dallas

Mary Davis (Mrs. Clifford K.)
4215 Ridge Road, 75229

Houston

Mrs. Patricia Bajenski
2829 Timmons Lane, #182, 77027
Patricia Caycedo
2021 Southgate, #3, 77030

San Antonio

Natalie Mayer Beller
370 Pike Road, 78209

Virginia

Fort Myer

Mrs. Hillman Dickinson
15 B Jackson Avenue, 22211

Richmond

Mrs. Heth Owen, Jr.
3 Greenway Lane, 23226

Washington

Mercer Island

Margaret Fahey Wallace
2956 72 Street SE, 98040

Richland

Mrs. Mary G. Lih
P.O. Box 923, 99352

Seattle

Diane Caravetta Stein
7217 57 Avenue NE, 98115

Associate Alumnae

West Indies

Jamaica

Mrs. John T.M. Girvan
50 Daisy Avenue
Kingston 6

Wisconsin

Milwaukee Area

Bonnie B. Oh, Ph.D.
2231 West Apple Tree Road
Glendale, 53209

Port Edwards

Cecilia Diaz Norris (Mrs. T.O.)
731 Wisconsin River Drive, 54469



XV. Scholarship Funds

UNRESTRICTED¹

Niels J. Allison Fund (1964).

From the estate of Beatrice C. Allison '12. \$55,229

Alumnae Scholarship Fund (1922)

A tenth reunion gift by the Class of 1912, subsequently supplemented by legacy from the estate of Julia Ludlow Young and by gifts of other alumnae. \$24,242.

Anna E. Barnard Scholarship Fund (1899).

In honor of Mrs. John G. Barnard by Emily H. Bourne. \$3,000.

Joan H. Baum Scholarship Fund (1977).

By the Trustees out of funds left to the College by a bequest of Joan H. Baum '52. \$5,000.

Frances E. Belcher Scholarship Fund (1963).

By bequest of Miss Frances E. Belcher. \$42,257.

Ruth Marshall Billikopf Scholarship Fund (1950).

In honor of Ruth Marshall Billikopf '19. \$5,000.

Varian White Blumberg Scholarship Fund (1952).

From the estate of Varian White Blumberg '13. \$5,000

Elizabeth M. Bogardus Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Elizabeth M. Bogardus '44. \$20,357.65.

¹Figures indicate principal of funds as of January 1, 1981.

Scholarship Funds

Charles E. Bogert Memorial Scholarship and Anna Shippen Young Bogert Memorial Scholarship Fund (1913).

By bequest of Annie P. Burgess. \$10,000.

Eva-Lena Miller Booth Scholarship Fund (1932).

In memory of Eva-Lena Miller Booth, by the New York City Chapter of the Daughters of the American Revolution. \$1,000.

Dorothy S. Boyle Scholarship Fund (1978).

By the Trustees out of funds left to the College by a bequest of Dorothy S. Boyle '40. \$34,025.

Josephine Brand Scholarship Fund (1970).

By bequest of Josephine Brand, the income therefrom to be expended within twenty-five years for scholarships. \$30,847.

Brearley School Scholarship Fund (1889).

By pupils and former pupils of the Brearley School. \$3,000.

Martha Ornstein Brenner Scholarship Fund (1915).

In memory of Martha Ornstein Brenner '99, by her friends. \$4,000.

Arthur Brooks Fund (1897).

As a memorial to the Reverend Arthur Brooks, D.D., Rector of the Church of the Incarnation and Chairman of the Board of Trustees of Barnard College during the first six years of its existence, by Olivia E. Phelps Stokes. \$5,000.

Margaret Bullowa Scholarship Fund (1979).

By the Trustees out of the funds left to the College by a bequest of Dr. Margaret Bullowa '30. \$15,127.

Elsa B. Bunn Scholarship Fund (1980).

By the Trustees out of funds left to the College by a bequest of Elsa B. Bunn '18. \$122,935.

Elizabeth Hobe Burnell Scholarship Fund (1971).

By bequest of Elizabeth Hobe Burnell '20. \$58,041.

Fanny Steinschneider Clark Scholarship Fund (1978).

By bequest of Fanny S. Clark '24. \$34,250.

Thomas F. Clark Students' Fund (1928).

By bequest of Mrs. Fanny Foster Clark. \$100,000.

Jennie B. Clarkson Scholarship Fund (1898).

By Mrs. W. R. Clarkson. \$3,000.

Class of 1918 Scholarship Fund (1975).

In memory of Marian McCaffrey Backus and other deceased members of the class of 1918, by bequest of Andrew P. Backus. \$9,195.

Class of 1921 Scholarship Fund (1931).

A tenth reunion gift by the class of 1921. \$2,500.

Class of 1925 Scholarship Fund (1975).

A fiftieth reunion gift by the class of 1925. \$14,650.

Class of 1930 Scholarship Fund (1975).

A forty-fifth reunion gift in memory of Margaret Holland, by the class of 1930. \$6,441.

Class of 1933 Scholarship Fund (1973).

A fortieth reunion gift by the class of 1933. \$18,586.

Class of 1935 Scholarship Fund (1975).

A fortieth reunion gift by the class of 1935. \$8,640.

Class of 1936 Scholarship Fund (1971).

A thirty-fifth reunion gift by the class of 1936. \$8,932.

Scholarship Funds

Class of 1953 Scholarship Fund (1973). A twentieth reunion gift by the class of 1953. \$5,255.

Class of 1954 Scholarship Fund (1955).

Gifts of the Class of 1954 through their twentieth reunion. \$8,877.

Class of 1959 Scholarship Fund (1974).

In memory of Jacqueline Zelniker Radin '59. \$15,025.

Martine Cobanks Scholarship Fund (1973).

From the Estate of Alvena Martine Cobanks '19. \$10,000.

College Bowl Scholarship Fund (1968).

With gifts from the General Electric Company, *Seventeen* Magazine, and Gimbels Department Store, earned by the Barnard College Bowl Team's five successive victories. \$19,500.

Yvonne Moen Cumferford Scholarship Fund (1972).

By bequest of Yvonne Moen Cumferford '23. \$10,000.

Caryl M. Curtis Scholarship Fund (1980).

In memory of Caryl M. Curtis '32, by her mother Irene H. Cohn. \$20,000.

Vera B. David Scholarships (1962).

Income from the trust established by bequest of Vera B. David in memory of her late husband, John David.

Ada M. Donelle Scholarship Fund (1948).

By bequest of Mrs. Ada M. Donelle. \$121,751.

L. Adele Dorsett Fund (1971).

By bequest of Herman F. Smaltz in memory of Adele Dorsett Smaltz '06. \$1,000.

Helen Geer Downs Scholarship Fund (1974).

By the Trustees out of funds left to the College by Helen Geer Downs '40. \$10,000.

Amelia Cary Duncan Scholarship Fund (1976).

In memory of Amelia Cary Duncan, by an anonymous donor. \$65,157.

May Parker Eggleston Scholarship Fund (1977).

By the Trustees out of funds left to the College by a bequest of May Parker Eggleston '04. \$5,000.

Sarah Engel Scholarship Fund (1973).

From the Estate of Sarah Engel '15. \$10,000.

Laura Teller Ericsson Scholarship Fund (1976).

In memory of Laura Teller Ericsson '32, by the Trustees out of funds left to the College by a bequest of Maude T. Griffing. \$21,118.

Margaret Jane Fischer Scholarship Fund (1968).

With a gift from Margaret Jane Fischer '35. \$10,014.

Fiske Scholarship Fund (1895).

By Mrs. Martha T. Fiske-Collord. \$5,000.

Edyth Fredericks Scholarship Fund (1974).

In honor of Edyth Fredericks, by her niece Ellina Golub. \$11,555.

Clara Lillian Froelich Scholarship Fund (1979).

By the Trustees out of funds left to the College by the Life Income Contract of Clara Lillian Froelich '15. \$30,526.

Doris P. Gallert Scholarship Fund (1970).

By the Trustees out of funds left to the College by a bequest of Doris P. Gallert. \$6,000.

Galway Fund (1912).

By an anonymous donor. \$2,400.

Scholarship Funds

Anita Hyman Glick Scholarship Fund (1968).

In memory of Anita Hyman Glick '62 by her family and friends. \$13,020

Irma Alexander Goldfrank Fund (1919).

In memory of Irma Alexander Goldfrank '08, by her friends. \$2,106.

Graham School Scholarship Fund (1907).

By the Graham Alumnae Association. \$7,300.

Ethel C. Gray Scholarship Fund (1973).

By the Trustees out of funds left to the College by a bequest of Ethel C. Gray '17. \$5,205.

Louise H. Gregory Scholarship Fund (1955).

With gifts in memory of Louise H. Gregory. \$4,547.

Hetta Stapff Halloran Scholarship Fund (1977).

By the Trustees out of funds left to the College by a bequest of Hetta Stapff Halloran '11. \$10,000.

Harkness Scholarship Fund (1939).

With a gift from Edward S. Harkness. \$100,000.

Jane Harnett Scholarship Fund (1978).

By the Trustees out of funds left to the College, and by gifts from her family and friends. \$5,997.

Helen May Smith Helmle Scholarship Fund (1973).

By the Trustees out of funds left to the College by the life income contract of Helen May Smith Helmle '30. \$72,932.

Margaret Holland Scholarship Fund (1975).

In memory of Margaret Holland, by the Trustees out of funds left to the College by Margaret Holland. \$22,850.

Rita Hilborn Hopf Memorial Scholarship Fund (1966).

By bequest of Rita Hilborn Hopf '14. \$270,403.

Charles Evans Hughes Scholarship Fund (1952).

By bequest of Charles Evans Hughes. \$14,300.

Eleanor Levison Israel Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Eleanor Levison Israel '39. \$5,000.

Lucie Burgi Johnson Scholarship Fund (1979).

By the Trustees out of funds left to the College by a bequest of Lucie Burgi Johnson '17. \$5,000.

Lily Murray Jones Scholarship Fund (1950).

In memory of Lily Murray Jones '05, Alumnae Trustee from 1939 to 1943, by Murray, Alfred, and Wallace Jones. \$25,146.

Mildred K. Kammerer Scholarship Fund (1973).

By bequest of Mildred K. Kammerer '19. \$7,550.

Mirra Komarovsky Scholarship Fund (1975).

With gifts from alumnae and other friends. \$7,418.

Lucile Wolf Koshland Scholarship Fund (1980).

By the Trustees out of funds left to the College by a bequest of Lucile Wolf Koshland '19. \$10,000.

Elsie M. Kupfer Scholarship Fund (1975).

By the Trustees out of funds left to the College by Elsie M. Kupfer '99. \$31,302.

Margaret Irish Lamont Scholarship Fund (1978).

By the Trustees out of funds left to the College by a bequest of Margaret Irish Lamont '25. \$10,050.

Scholarship Funds

Augusta Larned Scholarship Fund (1924).
By bequest of Augusta Larned. \$10,000.

Marjorie Herrmann Lawrence Scholarship Fund (1965/67).
In memory of Marjorie Herrmann Lawrence '19. By the Trustees out of funds left to the College and by gifts from the family. \$40,290.

Harriett Mooney Levy Scholarship Fund (1965).
By bequest of Harriett Mooney Levy. \$69,339.

Joan Sperling Lewinson Scholarship Fund (1955).
With gifts from Joan Sperling Lewinson '13. \$41,989.

Judith Lewittes Scholarship Fund (1957).
In memory of Judith Lewittes '55, by her family and friends. \$6,597.

Anne Elizabeth Lincoln Scholarship Fund (1963).
From the estate of Anne Elizabeth Lincoln '24. \$8,441.

Amy Loveman Scholarship.
See Prizes, page 312.

Louise Grace Luby and James Luby Scholarship Fund (1947).
From the estate of Grace Farrant Luby '93. \$5,000.

Barbara Scoville Maarschalk Scholarship Fund (1977).
By the Trustees out of funds left to the College by a bequest of Barbara Scoville Maarschalk '32. \$5,000.

Jeanne S. Mattersdorf and Bertha Miller Memorial Scholarship Fund (1970).
With a gift from Stephanie Mattersdorf Miller.

Cecile Lehman Mayer Scholarship Fund (1962).
With a gift from Mr. and Mrs. Mazur. \$25,000.

Leo Mayer Scholarship Fund (1972).
In memory of Leo Mayer by her family. Awarded in alternate years by Barnard College and Columbia College to a deserving student. \$2,000.

Adele Duncan McKeown Scholarship Fund (1973).
By the Trustees out of funds left to the College by a bequest of Adele Duncan McKeown '11. \$5,000.

Memorial Scholarship Fund (1954).
To receive contributions in memory of deceased alumnae and friends. \$59,855.

Dorothy E. Miner Scholarship Fund (1977).
In memory of Dorothy E. Miner '26, with gifts from her family and friends. Awarded to deserving female students. \$8,135.

Gladys Bateman Mitchell Scholarship Fund (1980).
By the Trustees out of funds left to the College by a bequest of Gladys B. Mitchell '14. \$10,320.

William Moir Scholarship Fund (1912).
In memory of William Moir by his wife. \$10,000.

Gulli Lindh Muller Scholarship Fund (1972).
By the Trustees out of funds left to the College by the life income contract of Dr. Gulli Lindh Muller '17. \$31,901.

Caroline Church Murray Fund (1918).
In memory of his wife, Caroline Church Murray, by George Welwood Murray. \$5,000.

Annette Florance Nathan Scholarship Fund (1947).
By bequest of Frederick Nathan, in memory of Annette Florance Nathan. \$3,000.

Scholarship Funds

Dora R. Nevins Scholarship Fund (1969).

In memory of Dora R. Nevins, by bequest of Nannie R. Nevins. \$12,500.

Dorothy Brockway Osborne Scholarship Fund (1976).

By the Trustees out of funds left to the College from her life income contract. \$12,355.

Lucretia Perry Osborn Scholarship Fund (1940).

In memory of Lucretia Perry Osborn, by her family and friends. \$5,000.

Elizabeth Palmer Scholarship Fund (1972).

By the Trustees out of funds left to the College by Elizabeth Palmer '15. \$20,000.

Jean T. Palmer Scholarship Fund (1969).

By gifts of alumnae and other friends. \$127,170.

Josephine Bay Paul Scholarship Fund (1978).

By the Charles Ulrick and the Josephine Bay Foundation. \$50,000.

Frances Moore Plunkert Scholarship Fund (1973).

In memory of Frances Moore Plunkert '33, by the Trustees out of funds left to the College by a bequest of William J. Plunkert. \$10,000.

Lucy Powell Scholarship Fund (1971).

By the Trustees out of funds left to the College by the life income contract of Lucy Powell '13. \$5,652.

M. Gladys Quinby Scholarship Fund (1961).

By bequest of M. Gladys Quinby '08 and gifts of friends. \$5,000.

Jacqueline Zelniker Radin Scholarship (1975).

With gifts from the family and friends of Jacqueline Zelniker Radin '59. \$6,773.

Eleanor Kaiser Reinheimer Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Eleanor Kaiser Reinheimer '28. \$5,000.

Eva Rich Scholarship Fund (1968).

By a bequest of Eva Jacobs Rich '07. \$53,243.

Peter C. Ritchie, Jr. Scholarship Fund (1937).

By bequest of Virginia J. Ritchie. \$4,436.

Margaret Miller Rogers Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Margaret Miller Rogers '23. \$13,779.

Edith Lowenstein Rossbach Memorial Scholarship Fund (1959).

In memory of Edith Lowenstein Rossbach '19, by her family, friends and classmates. \$23,304.

Carrie W. and Corine A. Rowe Scholarship Fund (1979).

By a bequest of Corine A. Rowe '25. \$20,522.

Edna Heller Sachs Scholarship Fund (1955).

With a gift from Edna Heller Sachs '10. \$16,260.

May and Edgar Salinger Scholarship Fund (1971).

In memory of Isaac and Eugenie Herrmann by bequest of May H. Salinger. \$688,798.

Eleanor Butler Sanders Scholarship Fund (1922).

By bequest of Henry M. Sanders. \$10,000.

Anna M. Sandham Scholarship Fund (1922).

By bequest of Anna M. Sandham to Columbia University. \$10,000.

Katherine D. Schlayer Scholarship Fund (1975).

With gifts from Katherine D. Schlayer '43. \$20,000.

Scholarship Funds

Schmitt-Kanefent Scholarship Fund (1931).

By bequest of Catherine Schmitt. \$7,101.

Scholarship Fund (1901).

By general subscription through the Scholarship Committee of the Board of Trustees.
Approximately \$11,980.

Katherine Flint Shadek Scholarship Fund (1961).

By Katherine Flint Shadek '44. \$29,500.

Max Sloman Scholarship Fund (1971).

By the Trustees out of funds left to the College by Max Sloman. \$11,700.

Emily James Smith Scholarship Fund (1899).

In honor of Miss Smith, Dean of Barnard College from 1894 to 1900, by Emily H. Bourne. \$3,000.

Frances M. Smith Scholarship Fund (1974).

By the Trustees out of funds left to the College by Frances M. Smith '32. \$199,648.

George W. Smith Scholarship Fund (1906).

In memory of George W. Smith, a Trustee of Barnard College, by Mrs. Martha T. Fiske-Collord. \$5,000.

Edna Phillips Stern Scholarship Fund (1952).

In memory of Edna Phillips Stern '09, by her family and friends. \$21,797.

Eleanor Holden Stoddard Fund (1977).

By the Trustees out of funds left to the College by a bequest of Eleanor Holden Stoddard '05. \$5,000.

Isabel Greenbaum Stone Scholarship Fund (1957).

In memory of Isabel Greenbaum Stone '18, by her family. Recipients of these scholarships are urged to repay the amounts they receive as soon as they are in a position to do so. \$24,265.

Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Scholarship Fund (1969).

With a bequest from Ethel G. Sturtevant, former Assistant Professor of English. \$20,000.

Solon E. Summerfield Foundation Scholarship Fund (1960).

By gifts from the Solon E. Summerfield Foundation. \$28,500.

Thrift Shop Scholarships (1938).

Awarded annually from the proceeds of the Barnard Scholarship Unit of Everybody's Thrift Shop, 330 East 59th Street, New York, N.Y. 10022.

Miriam Tobias Scholarship Fund (1980).

By the Trustees out of funds left to the College by a bequest of Miriam Tobias '35. \$64,249.

Veltin School Scholarship Fund (1905).

By the alumnae of Mlle. Veltin's School. \$3,000.

Florence Meyer Waldo Scholarship Fund (1980).

By the Trustees out of funds left to the College by a bequest of Florence Meyer Waldo '05. \$5,000.

Alma F. Wallach Scholarship Fund (1951).

In memory of Alma F. Wallach from the estate of Richard L. Leo. \$8,477.

Dorothy Calman Wallerstein Scholarship Fund (1976).

By the Trustees out of funds left to the College by a bequest of Dorothy Calman Wallerstein '09. \$71,731.

Scholarship Funds

Ella Weed Scholarship Fund (1895).

In memory of Ella Weed, Chairman of the Academic Committee of the Board of Trustees of Barnard College during the first five years of its existence, by pupils and alumnae of Miss Anne Brown's School. Approximately \$8,602.

Hymen and Helen Werner Scholarship Fund (1964).

In memory of Hymen and Helen Werner. Established by Helen Frankfield Werner '06 in 1953 in memory of her husband. Following her death maintained as the Hymen and Helen Werner Scholarship Fund by her daughters, Therese Werner Kohnstamm '33, Laura Werner Wallerstein '36 and Jean Werner Kane '37. \$12,718.

Fern Yates Memorial Scholarship Fund (1980).

In memory of Fern Yates '25, by her classmates and friends. \$6,302.

Restricted¹

Mary Gertrude Edson Aldrich Fund (1916).

By Mrs. James Herman Aldrich. For a student, in her senior year, who has shown in her college life the moral qualities which go to the making of fine womanhood. \$1,000.

Axe-Houghton Scholarship Fund (1977).

By the estate of Dorothy Houghton '23. For Barnard students with financial need who have completed at least one-half of the courses required for the Bachelor's Degree, who shall have a cumulative average grade of at least 3.0. \$100,000.

Bertha R. Badanes Scholarship Fund (1966).

By Bertha R. Badanes '14. For children of New York City school teachers preferably from Brooklyn. If there is no qualified candidate the award may be used for another needy student, preferably from Brooklyn. \$25,000.

Barnard College Club of Brooklyn Scholarship Fund (1944).

By the Barnard College Club of Brooklyn. Awarded annually to a student from the Brooklyn area. \$5,041.

The Barnard College Club of Detroit Scholarship (1958).

A tuition scholarship with variable stipend. Preference to be given to a new student from Metropolitan Detroit.

Barnard College Club of Houston Scholarship Fund (1969).

For students from the Houston area. \$18,475.

Barnard College Club of New York Scholarship Fund (1952).

For a Barnard student whose home is outside the area of the City of New York. \$53,570.

Barnard-in-Westchester Endowment Fund (1962).

By the Barnard College Club of Westchester County. Preference to be given to students from Westchester County. \$22,086.

Barnard School Alumnae Scholarship Fund (1916).

By the alumnae of the Barnard School for Girls. Preference to be given to nominees of the school. \$4,000.

Willina Barrick Memorial Scholarship Fund (1936).

In memory of Willina Barrick '00, by the College Club of Jersey City. Awarded on the nomination of the Club to a graduate of a Jersey City secondary school. \$10,635.

Irving Berlin Scholarship Fund (1950).

By Irving Berlin. For one or more Barnard students of foreign-born parentage. \$23,500.

June Rossbach Bingham Scholarship Fund (1976).

In honor of June Rossbach Bingham '40, by her family. Awarded to a Barnard student majoring in English, preferably one who is interested in pursuing a writing career. \$15,141.

Scholarship Funds

Ida Blair Memorial Fund (1937).

In memory of Ida Blair by the Women's Democratic Union. For the purchase of books for a student, preferably one studying political science. \$700.

Alice Marie-Louise Brett Scholarship Fund (1930).

In memory of his daughter, Alice Marie-Louise Brett '15, by bequest of Philip E. Brett. For a student, in the senior year, specializing in French. \$10,000.

William Tenney Brewster and Anna Richards Brewster Fund (1961).

By bequest of William Tenney Brewster. To be awarded preferably in amounts not less than \$1,000. \$166,614.

Anne Brown Endowment Scholarship Fund (1939).

In memory of Anne Brown, by the Anne Brown Alumnae Association. For Barnard students from the City of New York. \$31,339.

Carpentier Residence Scholarship Fund (1919).

By bequest of Horace W. Carpentier. For students who are not residents of New York City or its vicinity. \$200,000.

Therese Cassel Scholarship Fund (1973).

By bequest of Therese Cassel '11. For students who were born in New York City, preferably those whose mothers were born in New York City and attended Barnard College. \$5,000.

Eliza Taylor Chisholm Memorial Scholarship Fund (1901).

By the Alumnae Association of Miss Chisholm's School, which Association reserves the privilege of precedence for such candidates as it may recommend. \$3,000.

C.I.T. Financial Corporation Scholarship Fund (1979).

In honor of Eleanor Thomas Elliott '48. Awarded annually to a student doing distinguished work in economics. If no such student exists in a given year, at the discretion of the College's Scholarship Committee, it may be awarded to a student doing exceptional work in mathematics or political science. \$10,000.

Mrs. Henry Clarke Coe Scholarship Fund (1910).

By the National Society of New England Women, now the New York City Colony of the National Society. Awarded, on nomination of the Chairman of the Scholarship Committee of the New York City Colony, to a student from New England or of New England parentage. After the award is made the Society requires from the beneficiary full obedience to discipline and the highest ideals of scholarship. This may be awarded to an entering freshman. \$3,600.

Class of 1919 Decennial Fund (1929).

A tenth reunion gift by the Class of 1919. For a resident student. \$5,075.

Class of 1926 Emergency Student Aid Fund (1976).

A fiftieth reunion gift by the Class of 1926. Income to provide emergency financial aid for needy Barnard students. \$11,205.

Class of 1949 Scholarship Fund (1974).

A twenty-fifth reunion gift by the Class of 1949. For an incoming freshman. \$7,783.

Babette Deutsch Scholarship Fund (1978).

In honor of Babette Deutsch's 60th reunion at Barnard College, by gifts from her family and friends. Awarded to Barnard students who have demonstrated exceptional ability in the literary disciplines of poetry, criticism, or translation. \$5,030.

Augusta Salik Dublin Scholarship Fund (1960).

In memory of Augusta Salik Dublin '06, by her family and friends. To enable a student to continue education in preparation for leadership in a field of social welfare, such as social work, social legislation, housing and city planning, or a related area. Available either to a student for undergraduate study or to a graduating student for graduate work, for one or more years. \$13,232.

Scholarship Funds

Christine H. Elde Memorial Scholarships (1968).

Scholarships of up to \$1,000 each awarded biannually to students in their junior year who are majoring in anthropology or in English, with preference given to the former. \$92,133.

Educational and Cultural Trust Fund of the Electrical Industry Scholarships (1951).
By the major electrical contracting firms of New York City. For sons and daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers. Variable in number.

May Parker Eggleston Scholarship Fund (1972).

By Mrs. Cary Eggleston '04. For a science student, preferably a student planning to attend medical school. \$6,335.

English Scholarship Fund (1920).

By an anonymous donor. For a student of good standing who is specializing in English. If in any year there is no student specializing in English who is particularly deserving of aid, the scholarship may be used to assist a student majoring in some other subject. \$5,000.

Gladys Renshaw Esterbrook Scholarship Fund (1958).

In memory of her daughter, Gladys Renshaw Esterbrook '20, by bequest of Minnie R. Esterbrook. Preference to be given to students majoring in English or French. \$5,000.

Fairfield County Scholarship (1962).

Preference to be given to entering freshmen from Fairfield County for one year only.

Martha T. Fiske Scholarship Fund (1911).

In memory of her sister, Mrs. Martha T. Fiske-Collard, by Anna E. Smith. For a student who is not a resident of New York City or its suburbs. \$5,000.

Helen Jenkins Geer Scholarship Fund (1940).

In memory of her mother, Helen Jenkins Geer '15, by Helen Hartley Geer '40. Awarded annually, after conference with the donor. \$5,000.

German Scholarship Fund (1950).

See Prizes, page 312.

Virginia Gildersleeve International Scholarship Fund (1937).

In honor of the international work of Dean Emeritus Gildersleeve, by Charles R. Crane. For a foreign student coming to Barnard to study. \$15,100.

Virginia C. Gildersleeve Scholarship Fund (1968).

In memory of Dean Emeritus Gildersleeve by the Class of 1923 on their forty-fifth reunion. For a student majoring in the humanities, preference to be given to an English major. \$6,617.

Julius Held Scholarship Fund (1970).

By gifts of alumnae and other friends. For a deserving student majoring in Art History. \$36,171.

Emma Hertzog Scholarship Fund (1904).

With gifts from residents of Yonkers, New York. Awarded in conference with the faculty of the Yonkers High School, to a graduate of that school. \$3,000.

Marion Alice Hoey Fund (1944).

In memory of Marion Alice Hoey '14, by Nellie Poorman. Preference to be given to students studying Greek and Latin. \$2,000.

Hannah and Henry Hofheimer Scholarship Fund (1975).

In honor of Hannah Hofheimer '09. By her family and friends in honor of her 90th birthday and 70th reunion at Barnard. Awarded annually to a Barnard freshman. \$26,435.

Scholarship Funds

Holland Dames Scholarship Fund (1915).

In honor of Fanny I. Helmuth, by the Society of Daughters of Holland Dames. Awarded in conference with a representative of the Society to a student descended from the early Dutch settlers.

Lillia Babbitt Hyde Scholarship Fund (1953).

By the Lillia Hyde Foundation. For premedical students. \$25,000.

Charlotte Louise Jackson Scholarship Fund (1928).

In memory of Charlotte Louise Jackson, by bequest of her sister, Fannie A. Jackson. For a graduate of a Yonkers High School selected or under the direction of the Board of Education of Yonkers. \$5,000.

Mary E. Larkin Joline Scholarship Fund (1927).

By bequest of Mary E. Larkin Joline. For a student who is specializing in music. \$10,000.

Werner Josten Scholarship Fund (1955).

With a gift from Mrs. Werner Josten. Preference to be given to a student majoring in music. If in any year no such student is eligible, the scholarship may be awarded to a student majoring in some other field. \$25,916.

Jessie Kaufmann Scholarship Fund (1902).

In memory of his daughter, Jessie Kaufmann, by Julius Kaufmann. Awarded on the merits of entrance examinations to a student who, after careful investigation, is found to have no relative able to offer financial assistance. It may be held for the entire college course. \$4,000.

Kimball Scholarship Fund (1938).

By bequest of Lillian Emma Kimball. Awarded to a student from Spain or one of the Spanish-American countries who shall pursue a year of graduate or undergraduate study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish. \$32,883.

Eleanor Kinnicutt Scholarship Fund (1911).

In memory of Mrs. Francis P. Kinnicutt, a Trustee of Barnard College. Awarded at the end of the freshman year to a student of exceptionally high standing, it may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Dr. Ann G. Kuttner Scholarship Fund (1969).

By the Trustees out of funds left to the College by the life income contract and bequest of Dr. Ann G. Kuttner for financial aid, preferably to premedical students. \$217,008.

Bernard Liberman Scholarship Fund (1979).

In memory of Bernard Liberman, by his brother Saul B. Liberman. Awarded annually to pre-medical students at Barnard College. \$20,272.

Carolina Marcial-Dorado Scholarship Fund (1953).

In memory of Professor Carolina Marcial-Dorado, for many years head of the Barnard College Department of Spanish. Awarded to a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad. If at any time there is no applicant eligible for the grant, it may at the discretion of the department be awarded to a student who is majoring in Spanish. \$17,193.

Raphael Marino Scholarship Fund (1977).

In memory of Raphael Marino, by his sister Michele Steinbock. For a female student interested and proficient in the Italian language, Italian literature or art, or in Italian culture. \$5,000.

Eugene F. and Minnie Gouger McGowan Scholarship Fund (1955).

By an anonymous donor. Preference to be given to candidates from Mecklenburg County, North Carolina. If in any year no such candidate is eligible, the scholarship may be awarded to a student or students from other areas. \$10,000.

Scholarship Funds

Fannie Moulton McLane Scholarship Fund (1961).

By bequest of Fannie Moulton McLane '07. Awarded for tuition to deserving students who are citizens of the United States of America, with preference to those, if any, who satisfactorily establish that they are of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier. \$7,500.

Mrs. Donald McLean Scholarship Fund (1906).

By the New York City Chapter of the Daughters of the American Revolution. Awarded, in conference with a representative of the Chapter, to a student who agrees to pursue the study of history (chiefly that of the United States) continuously throughout college. \$3,000.

Ferry Starr Morgan Scholarship Fund (1959).

In memory of her father, by bequest of Grace B. Morgan '19. For a student who is majoring in music or philosophy. \$10,000.

Lawrence Morris Scholarship Fund (1968).

In memory of Lawrence Morris by his sister Mrs. Walter Sturges (Alice Morris '36) and other members of the family. Preference to be given to a nominee of the New York City Mission Society. \$11,590.

Lucy Moses Scholarship Fund (1975).

With a gift from Lucy Moses. Awarded to a pre-medical Barnard student. \$10,000.

Julia Fisher Papper Scholarship Fund (1974).

In memory of Julia Fisher Papper '37, by her husband Dr. Emanuel Papper and friends. Awarded to a senior of superior academic standing who has demonstrated high motivation in work at the College. \$8,830.

Mary Barstow Pope Scholarship Fund (1913).

In memory of Mary Barstow Pope, teacher in Miss Chapin's School, by her friends, her fellow teachers, and her pupils. Awarded on the nomination of a self-perpetuating committee representing the founders. \$4,000.

Public Service Scholarship Fund (1934).

By the Women's Organization for National Prohibition Reform. Awarded to Barnard students of exceptional ability, interested in following a career of public service in the field of political science, who show special promise of future usefulness in the public service. Awarded at the discretion of the Faculty of Barnard College to one or two students in their junior or senior years. In the case of a particularly promising student the Faculty may, at its discretion, extend the award to cover one, two, or three additional years of graduate study at an approved college or university in order to encourage students of exceptional ability to complete a course of study which will fit them for service in public life. \$30,000.

Lucille Pulitzer Scholarship Fund (1899).

In memory of his daughter, Lucille Pulitzer, by Joseph Pulitzer. Three are restricted to students from the City of New York, eight are for resident students. \$176,459.

Marie Reimer Scholarship Fund (1953).

See Prizes, page 312.

Amelia Agostini de del Rio Scholarship Fund (1955).

In honor of Amelia de del Rio, Chairman of the Department of Spanish from 1942 to 1962. Awarded to a student from Mrs. de del Rio's native island of Puerto Rico. If at any time there is no applicant from Puerto Rico eligible for the grant, it may, at the discretion of the department, be awarded to a student who is majoring in Spanish. \$21,333.

Lesley Jane Rosen Memorial Scholarship Fund (1975).

In memory of Lesley Jane Rosen '71, by her mother Rita J. Rosen. For an outstanding Barnard student who shows leadership quality and whose subject of interest is urban studies and/or political science. \$5,210.

Scholarship Funds

Dr. Harry Rosenstein Scholarship Fund (1967).

In memory of Dr. Harry Rosenstein by his wife, Bertha Z. Rosenstein, and daughter, Gertrude L. Rosenstein '48. For a premedical student. \$5,000.

Joan Rosof Scholarship Fund (1964).

In honor of Joan Rosof '61, by her father, Mr. Murray Rosof. For qualified students with the wish, but not the directive, that preference be given to his descendants or, in the absence thereof, to students from the State of New York. \$5,340.

Felix St. George Scholarship (1955).

In memory of her father, Felix St. George, by bequest of Ida St. George. For an incoming freshman whose subject of interest is a science or premedical course, more particularly physics, chemistry, or biology. \$7,455.

Dorothy K. Scheidell Scholarship Fund (1965).

In memory of Dr. Dorothy K. Scheidell '28, by her family, classmates and friends. For a premedical student. If in any year no student qualifies for the award, it may be deferred until the following year. If no student qualifies over a three-year period, the accumulated income may be awarded to any able student with financial need. \$5,665.

Lillian Schoedler Scholarship Fund (1967).

By bequest of Lillian Schoedler '11. Income and/or principal awarded to deserving students with financial need who have shown promise of qualities of leadership and/or potentialities for future civic or social usefulness. Awards preferably distributed in small amounts to many students. \$65,860.

Margarete Schwabe Scholarship Fund (1974).

In memory of Dr. Margarete Schwabe by gifts from her daughter, Dr. Monika M. Eisenbud. For a premedical Barnard student with outstanding ability and idealism. \$6,025.

Clarice Ann Smith Scholarship Fund (1973).

By bequest of Clarice Ann Smith '18. For students who in the judgment of the Trustees and Faculty give promise of excellence in the field of literature and composition. \$168,101.

Fred Curtis Smith Memorial Scholarship Fund (1955).

In memory of Fred Curtis Smith, at the time of his death Vice President and Mortgage Officer of the Bowery Savings Bank. \$57,000.

Marion Wesley Smith Scholarship Fund (1978).

By a bequest from Lillian W. Wild in memory of Marion Wesley Smith '29. Awarded to Barnard students majoring in Anthropology. \$21,296.

Hilda Staber Scholarship Fund (1967).

By bequest of Hilda Staber '05. For foreign students of character and ability. \$25,000.

Estella Raphael Steiner Scholarship Fund (1972).

With gifts from Mrs. G. Gustav Steiner '23. For a senior of exceptionally high scholastic standing in Biological Sciences who plans to engage in research in that field. \$10,583.

Beatrice L. Stern Memorial Scholarship Fund (1977).

By bequest of Ruth E. Weill. For a junior or senior Barnard student majoring in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene. \$130,544.

Marion Levi Stern Scholarship Fund (1977).

In memory of Marion Levi Stern '20, by her family. For one or two Barnard freshmen, sophomores, juniors, or seniors in need of financial aid, provided that, if possible and appropriate, the award be made to a student with an interest in the social sciences, such as history, economics, or political science and provided further that the award may be held for a period of up to four years so long as the recipient continues to maintain a good record in the opinion of Barnard's administration. \$77,545.

Scholarship Funds

Emma A. Tillotson Scholarship Fund (1910).

By Mrs. Luther G. Tillotson. Awarded at the end of the freshman year to a student of exceptionally high standing. It may be held for three years, provided the recipient continues to maintain a high rank. \$5,000.

Clara Buttenwieser Unger Memorial Fund (1938).

In memory of his daughter, Clara Buttenwieser Unger '13, by Joseph L. Buttenwieser. To assist through the senior year a student whose subject of major interest is government, and who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution. \$2,500.

Helen Elizabeth Vosburgh Scholarship Fund (1934).

In memory of Helen Elizabeth Vosburgh '25, by bequest of Katherine G. Lippke. Preference to be given to a self-supporting student. \$5,000.

Gertie Emily Gorman Webb Scholarship Fund (1953).

By Charles Webb. For a student nominated by the Department of History. \$4,990.

Esther Lensh Weisman Scholarship Fund (1979).

In memory of Esther Lensh Weisman '24. By her husband Jacob Weisman. Awarded annually preferably for a student majoring in English. \$10,000.

Allison Wier Scholarship Fund (1977).

By a bequest of Allison Wier '29. For a Barnard student or students who are residents of Westchester County. \$24,000.

Elsa P. Wunderlich Scholarship Fund (1978).

By bequest of Elsa P. Wunderlich '12. Awarded to a German exchange student. \$3,000.

Alma Gluck Zimbalist Scholarship Fund (1940).

By bequest of Alma Gluck Zimbalist. For a student who wishes to major in political science. \$10,000.





XVI. Honors

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study.

Fellowships¹

Associate Alumnae of Barnard College Graduate Fellowship (1963).

Awarded annually to a graduate who shows exceptional promise in her chosen field of work. Income on \$50,000. Information and applications may be obtained in the Alumnae Office, 115 Milbank.

Anne Davidson Fellowship Fund (1971).

In honor of Anne Davidson by the R.W. Davidson family and friends. Awarded at the discretion of the faculty committee of the **Program on Environmental Conservation and Management** to a graduating senior who has demonstrated continuing interest in the study of conservation. The holder is to pursue a year's graduate study in conservation at Columbia University or any other university of approved standing. Income on \$24,643.

George Welwood Murray Graduate Fellowship Fund (1930).

By George Welwood Murray. Awarded as an academic honor to that member of the graduating class of Barnard College who, in the opinion of the Faculty, shows most promise of distinction in her chosen line of work in the field of the **humanities** and/or the **social sciences**. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which may then be used by the College for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study at Columbia or any other university or college of approved standing. Income on \$20,000.

¹Figures indicate principal of funds as of January 1, 1981.

Honors

Josephine Paddock Fellowship Fund (1976).

By a bequest from the estate of Ethel Louise Paddock. Awarded annually to a member of the graduating class of Barnard College who, in the opinion of the faculty, has shown the most promise of distinction in such field or graduate study in art as the Faculty shall determine. The holder is to pursue her studies preferably abroad at a college or university of approved standing, but may at her election pursue such studies in the United States. Income on \$105,521.

Grace Potter Rice Fellowship Fund (1935).

In memory of his wife, Grace Potter Rice, Instructor and Assistant Professor of Chemistry at Barnard from 1918 to 1934, by Winthrop Merton Rice. Awarded as an academic honor to the member of the graduating class of Barnard College who, in the opinion of the Faculty, shows the most promise of distinction in her chosen line of work. Should the recipient prove in no need of financial assistance, she may retain the title and honor but resign the income, which will then be used for other fellowships or scholarships. Students who have graduated in February are eligible as well as those who are to graduate in June. The holder is to pursue a year of graduate study in the **natural sciences or mathematics** at Columbia or any university or college of approved standing. Income on \$24,000.

Alpha Zeta Club Graduate Scholarship Fund (1936).

By the Alpha Zeta Club, Inc. Awarded at the discretion of the Faculty as an academic honor to a member of the graduating class of Barnard College who, in their opinion, shows promise of distinction in her chosen line of work. It may also be awarded to an outstanding recent Barnard graduate who is a candidate for a higher degree. Income on \$21,038.

William Mason Scholarship (1928).

The William Mason Scholarship in **music** is awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music. An award of \$500.

Prizes¹

General

Estelle M. Allison Prize Fund (1937).

By bequest of Estelle M. Allison. Awarded to a student for excellence in literature. Income on \$1,001.

Mary E. Allison Prize Fund (1937).

In memory of her mother, Mary E. Allison, by bequest of Estelle M. Allison. Awarded to a student for general excellence in scholarship. Income on \$1,001.

Frank Gilbert Bryson Prize (1931).

In memory of Frank Gilbert Bryson, by bequest of Ella Fitzgerald Bryson '94. The President of the College shall fix the method of selecting a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years. Income on \$3,000.

The Columbia University Press Prize.

A copy of the Columbia Encyclopedia is awarded by the Columbia University Press to the member of the sophomore class who has done the best writing for Barnard Bulletin.

Eleanor Thomas Elliott Prizes (1973).

In honor of Eleanor Thomas Elliott '48, established by Mr. John Elliott, Jr. Awarded annually as two prizes, the first to be \$1,500 and the second \$1,000, to two students in the junior class, as chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity and good citizenship in the College, the balance of the income to be applied as a financial aid award to another deserving student or students. Income on \$25,500.

Katharine Reeve Girard Prize (1964).

In memory of Katharine Reeve Girard '33, by her husband, Professor Richard A. Girard, and her friends. Awarded by the Faculty Committee on Honors to a student whose interests are in the international aspects of a major. Income on \$2,500.

Ann Barrow Hamilton Memorial Prize in Journalism (1978).

In memory of Ann Barrow Hamilton '70, by her husband, family, and friends. Awarded annually to a graduating senior who is planning to pursue a career in the field of journalism and who is judged by the Honors Committee to show the most promise of success in that field based on scholarship, writing ability, and desire to succeed. Income on \$3,971.

The Margaret Holland Bowl (1974).

In memory of Margaret Holland, Professor Emeritus, and Chairman of the Department of Physical Education from 1945 to 1964. Awarded annually for excellence in leadership and participation in the Recreation and Athletic Association.

Margaret Meyer Graduate Scholarship Fund (1952).

In memory of Margaret Meyer Cohen '15, by bequest of Annie Nathan Meyer. Awarded to a student in the graduating class for instruction in secretarial work. Income on \$3,000.

Marian Churchill White Prize Fund (1975).

In memory of Marian Churchill White '29, permanent class president, alumnae president, alumnae trustee, and author of *A History of Barnard College* (1954), by her classmates and other friends. Primary intention: to honor the combination of scholarly promise and service to class and college exemplified by Marian Churchill as an undergraduate. A prize of \$500 awarded annually to an outstanding Barnard student in the sophomore class who has participated actively in student affairs, as selected by the Faculty Committee on Honors. The balance of the income to be designated as a grant to the same student if she qualifies for financial aid on the basis of need; if not, to an alternate of comparable merit who does so qualify. Income on \$56,144.

Premedical

Helen R. Downes Prize (1964).

In honor of Professor Emeritus Helen R. Downes '14, Chairman of the Barnard College Department of Chemistry from 1945 to 1960, by former students and friends. Awarded at the end of her senior year to the student who, in the opinion of the Premedical Committee, shows greatest promise of distinction in medicine or the medical sciences. Income on \$1,958.

The Michael T. Glynne Memorial Prize (1971).

By Linda A. Glynne '71. A prize of \$100 awarded annually to the senior accepted by a medical school who has demonstrated outstanding achievement in the humanities and the social sciences as a non-science major.

Ida and John Kauderer Prize Fund (1973).

Awarded annually to a premedical Barnard student majoring in chemistry. Income on \$1,500.

Art History

Virginia B. Wright Art History Prize Fund (1969).

Awarded annually to the most promising senior majoring in Art History. Income on \$1,540.

Biological Sciences

Edna Henry Bennett Memorial Fund (1927).

In memory of Edna Bennett '15, Lecturer in Zoology, by her friends. Awarded by the Department of Biology for work at a biological laboratory offering summer courses. Income on \$1,640.

Honors

Herrman Botanical Prize Fund (1892).

By Mrs. Esther Herrman. Awarded to the most proficient undergraduate student in biology. Income on \$1,000.

The Herbert Maule Richards Fund (1933).

In memory of Professor Richards, a member of the Department of Botany from 1896 to 1928 and Chairman from 1897 to 1928, by the Barnard Botanical Club, former students, and friends. Granted from time to time to further botanical research, under the direction of an approved institution, to a student or graduate of Barnard College. Income on \$5,000.

Von Wahl Prize (1915).

In memory of Constance von Wahl '12, President of the Undergraduate Association. Awarded to a student for excellence in biology, on the understanding that it is to be used to continue advanced work in that field. If in any year no student stands out as eminently deserving of the prize, it is not awarded. Income on \$1,300.

Chemistry

American Institute of Chemists, New York Chapter.

Awarded annually to the outstanding student of chemistry who will continue the study of chemistry. A one-year subscription to "The Chemist," and a certificate of honor.

Helen R. Downes Prize (1964).

See Premedical listing.

Ida and John Kauderer Prize (1973).

See Premedical listing.

Marie Reimer Scholarship Fund (1953).

In honor of Professor Emeritus Marie Reimer, for many years Chairman of the Barnard College Department of Chemistry, by former students and friends. Awarded annually at the end of the junior year to an outstanding student majoring in chemistry. In case the winner does not need financial help, the award shall be a prize, the amount to be recommended by the Chemistry Department. The balance of the income shall be awarded by the Director of Financial Aid to an outstanding student at the end of the junior year who is majoring in chemistry and who has financial need. The students receiving financial aid from this fund shall be informed of the source of the award. Income on \$25,100.

Economics

The American Statistical Association Prize, New York Area Chapter (1960).

Awarded annually to the outstanding undergraduate student in statistics. A one-year student membership in the American Statistical Association and \$50.

Katharine E. Provost Memorial Prize Fund (1949).

In memory of Katharine E. Provost. Miss Provost was for twenty-three years Secretary and Assistant to the Controller of Barnard College and, at the time of her death, Superintendent of Buildings and Grounds. Awarded for superior work by an undergraduate major in economics. Income on \$1,000.

Sylvia Kopald Selekman Prize Fund (1960).

In memory of Sylvia Kopald Selekman '20, by Janet Robb. Awarded by the Department of Economics to the freshman who is doing the best work in introductory economics. Income on \$1,000.

Education

Stephanie Kossoff Prize (1972).

In memory of Stephanie Kossoff, by her family. A prize of \$100 awarded annually to the student who has made the most noteworthy contribution or meaningful endeavor in early childhood education.

English

Saint Agatha-Muriel Bowden Memorial Prize Fund (1971).

By the Saint Agatha Alumnae Association in memory of its school principal from 1930 to 1940. Awarded for superior proficiency in the study of Chaucer and Medieval Literature. Income on \$1,600.

Cabell Greet Prize Fund (1974).

By family and friends. Awarded to a major for excellence in English. Income on \$2,380.

The Elizabeth Janeway Prize for Prose Writing.

A prize of \$500 awarded annually. Open to all undergraduates for a work of prose, whether fiction or non-fiction, which gives the greatest evidence of creative imagination and sustained ability. The final manuscripts must be submitted to the Chairman of the Department of English by March 1. The prize will be given at the discretion of a board of three judges chosen by the College and the donor.

Amy Loveman Memorial Fund (1956).

In memory of Amy Loveman '01, by her friends and classmates. First charge on the income shall be an annual prize of \$100 for the best original poem by a Barnard undergraduate. Terms of the competition will be announced by the Department of English. The balance of the income shall be allocated to scholarships and shall be known as the Amy Loveman Scholarship. Income on \$20,100.

Lenore Marshall Barnard Prizes (1975).

In memory of Lenore Marshall, by The New Hope Foundation. For authors of the best prose and the best poetry published in a literary magazine of the College. Adjudged by the English Department with the aid of such students as it may select. Income on \$5,000.

Sidney Miner Poetry Prize Fund (1962).

In memory of Sidney Louise Miner '14, by bequest of Rosemary Alice C. Thomas. Awarded annually by the Department of English to the senior major who has shown distinction in the reading, writing, and study of poetry. Income on \$5,000.

The Helen Prince Memorial Prize Fund (1921).

In memory of his daughter, Helen C. Prince '22, by Julius Prince. Awarded by the Department of English to an undergraduate student for excellence in dramatic composition. Income on \$1,200.

Stains-Berle Prize Fund in Anglo-Saxon (1968).

In memory of her grandmothers, Caroline Fox and Katherina Mohrherr Berle, and in honor of Professor Cabell Greet, by Katherine G. Stains '52. Awarded annually to an undergraduate student for excellence in Anglo-Saxon language and literature. Income on \$1,000.

The Academy of American Poets Prize. (Columbia University).

A prize of \$100, established by the Academy of American Poets for the best poem or group of poems by a student. Awarded by the Department of English of Columbia University at the close of the Spring Term. Manuscripts should be submitted prior to March 15. For further information consult the Chairman of the Department of English and Comparative Literature of the University.

The Bunner Medal (Columbia University).

The H.C. Bunner Gold Medal, in memory of Henry Cuyler Bunner, is awarded at Commencement to the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature selected in connection with course or seminar work in American literature and approved by the Chairman of the Bunner Prize Committee. For additional information consult the Departmental Representative for English and Comparative Literature of Columbia University.

Honors

Van Rensselaer Prize. (Columbia University).

To the candidate for a degree in Columbia University who is the author of the best example of English lyric verse. Material must be submitted by April 1. Applicants should submit not more than three poems of their own choice, aggregating not more than twenty pages. Income of the Marianna Griswold Van Rensselaer Fund, about \$50. For additional details consult the Department of English and Comparative Literature.

George Edward Woodberry Prize. (Columbia University).

By the Woodberry Society as a memorial to George Edward Woodberry. Awarded every second year to an undergraduate student of the University for the best original poem. Material must be submitted by April 1. Value of prize about \$100. For additional details consult the Department of English and Comparative Literature.

Environmental Conservation and Management

Henry Sharp Prize Fund (1970).

In memory of Henry Sharp, Professor of Geology at Barnard College from 1941 to 1967, by gifts of alumnae, family and friends. Awarded annually to an outstanding student majoring in the Program on Environmental Conservation and Management. Income on \$2,980.

French

Helen Marie Carlson French Prize Fund (1965).

In memory of Helen Marie Carlson by her family and friends. Awarded to the student who writes the best composition in fourth-term French (French 4), the course which Miss Carlson directed for many years, or a similar course at the discretion of a board of three judges chosen by the College. Income on \$3,016.

Isabelle de Wyzewa Prize Fund (1972).

In memory of Isabelle de Wyzewa by her family and friends. Awarded to the student who writes the best composition in the French course, *Masterpieces of Literature from the Middle Ages to the Twentieth Century*, which Professor de Wyzewa directed for many years. Income on \$1,000.

Frederic C. Hoffherr French Prize (1961).

In memory of Frederic C. Hoffherr, Associate Professor of French from 1936 to 1955. Awarded annually to a student in intermediate French (Course 3) for excellence in oral French. The prize is offered to encourage proficiency among students who are not themselves of French background. The winner is chosen on the basis of a contest sponsored by the French Department. Income on \$1,025.

Linda Joan Israel Prize in French (1977).

In memory of Linda Joan Israel '65. By her parents, Mr. and Mrs. Justinian Israel. Awarded annually to a senior French major for work done in the course *Advanced Oral French*, or, as an alternative, in the course *Advanced Translation into French*. In the absence of both of the above courses, the prize will be given for work in an advanced French poetry course. Award of \$50.

Eleanor Keller Prizes (1968).

By bequest of Marguerite Mespoulet, Professor Emeritus of French at Barnard College, in memory of Eleanor Keller, Professor of Chemistry at Barnard College. One prize, not exceeding \$1,000, to be awarded annually to a member of the junior class, not necessarily a French major, who has an outstanding record in courses of French literature offered by the department. Another prize, not exceeding \$1,000, to be awarded annually to a member of the senior class, not necessarily a French major, who has an outstanding record in courses concerned with French culture. Income on \$43,517.

Rosemary Thomas Prize Fund in French (1966).

In honor of the poet Rosemary Thomas, by bequest of Helen Marie Carlson, a long-time member of the Barnard College French Department. Awarded annually to the undergraduate student preferably, but not necessarily, a French major, who, in the opinion of the members of the Barnard College French Department, has shown the greatest evidence of a special sensitivity and awareness in the study of French poetic literature. Income on \$10,050.

Geography

Lillian Berle Dare Prize Fund (1974).

Awarded annually to the most proficient Barnard senior majoring in geography who will continue to study in a related field. Income on \$1,000.

German

Dean Prize in German (1952).

By Edward D. Adams for the promotion of the study of German language and literature in Barnard College. Awarded to that member of the senior class who has throughout college done the best work in German language and literature. Income on \$1,000.

German Scholarship Fund (1950).

Awarded at the end of the junior year to an outstanding student majoring in German. In case the winner does not need scholarship help, the award shall be a prize of \$100 and the balance of the scholarship may be given to another able student majoring in German. If in any year no student qualifies for the award, it may be deferred and given to one or more qualified students at a later date. Income on \$16,000.

Greek and Latin

Earle Prize in Classics (Columbia University).

A prize of \$150, in memory of Mortimer Lamson Earle, Instructor in Greek in Barnard College from 1889 to 1895 and from 1898 to 1900 and Professor of Classical Philology from 1900 to 1905. Awarded to a candidate for the degree of Bachelor of Arts, for excellence in sight translation of passages of Greek and Latin. For further information consult Professor James A. Coulter.

Jean Willard Tatlock Memorial Prize Fund (1917).

In memory of Jean Willard Tatlock '95 by her friends. Awarded to the undergraduate student most proficient in Latin. Income on \$1,250.

History

Eugene H. Byrne History Prize Fund (1960).

In memory of Eugene H. Byrne, Professor of History at Barnard College and Executive Officer of the Department from 1931 to 1949, by his wife, Janet M. Byrne, and friends. Awarded for superior work to an undergraduate majoring in history. Income on \$3,604.

The Jenny A. Gerard Medal (1908).

By the Society of the Colonial Dames of America in memory of Mrs. James Gerard, late President of the Society. Awarded annually to the student who is most proficient in Colonial history.

Italian

Bettina Buonocore Salvo Prize Fund (1966).

By bequest of Bettina Buonocore Salvo '16. Awarded annually to a deserving graduate or other student studying Italian, selected by the Department of Italian. Income on \$5,000.

Honors

Speranza Italian Prize Fund (1911).

In memory of Carlo Leonardo Speranza, Instructor and Professor of Italian at Barnard College from 1890 to 1911, by a former student. Awarded to a student for excellence in Italian. Income on \$1,000.

Mathematics

Margaret Kenney Jensen Prize Fund (1973).

In memory of Margaret Kenney Jensen '09, by Miss Evelyn H. McCaskie. Awarded annually, preferably to a freshman, sophomore, or junior for excellence in mathematics. Income on \$5,000.

Kohn Mathematical Prize (1892).

By Mrs. S.H. Kohn. Awarded to a senior for excellence in mathematics. Competitors for this prize must have pursued mathematics continuously during the college course. Income on \$1,000.

Music

Robert Emmett Dolan Prize (Columbia University).

A cash prize awarded annually by the Department of Music to help a student in any division of the University in paying for instruction on a chosen musical instrument. The award was established by an anonymous donor in memory of Robert Emmett Dolan.

Oriental Studies

Taraknath Das Foundation Prize in Oriental Studies (Columbia University).

A prize of \$50 awarded annually to a student in Barnard College, Columbia College, or the School of General Studies, for excellence in Oriental Studies.

Philosophy

The William Pepperell Montague Prize Fund (1949).

By William P. Montague, Lecturer, Instructor, and Professor of Philosophy at Barnard College from 1903 to 1949. Awarded to a student of Barnard College who, in the opinion of the members of the Department of Philosophy, shows promise of distinction in the field of philosophy. Income on \$5,441.

Physics

Henry A. Boorse Prize Fund (1974).

By alumnae and friends of Dean Boorse on his retirement. Awarded annually to the most promising Barnard sophomore in Physics. Income on \$6,502.

Political Science

Phoebe Morrison Memorial Prize Fund (1969).

Awarded upon recommendation of the Barnard College Political Science Department to a political science major planning to attend law school. Income on \$1,595.

James Gordon Bennett Prize (Columbia University).

A prize of \$175 established through a gift from James Gordon Bennett may be awarded by the Faculty of Political Science, with the approval of the Chairman of the Bennett Prize Committee, for the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States. The competition is open to students not holding a Bachelor's degree who pursue satisfactory courses in political science. Manuscripts should be submitted prior to the last day of classes of the Spring Term. For additional information consult Professor Joseph A. Rothschild.

The Caroline Phelps Stokes Prize (Columbia University).

The Caroline Phelps Stokes Prize of \$100 is awarded at Commencement to that student 318 who has been a degree candidate for at least one academic year in Columbia College or Barnard College and who has written the best essay on any topic approved by the Stokes

Prize Committee, which has been presented in course or seminar work. Material should be submitted by January 1. For additional information consult the Departmental Representative for Political Science.

Psychology

The American Statistical Association Prize, New York Area Chapter (1960).
See Economics listing.

Religion

Samuel Dornfield Prize Fund (1979).

In memory of Samuel Dornfield, by his niece Helene Farber de Aguilar '66. Awarded annually at the discretion of the Religion Department, to a Barnard student whose work in Old Testament or Ancient Near Eastern Studies reflects special sensitivity and academic excellence. Award of \$100.

Caroline Gallup Reed Prize Fund (1916).

In memory of her mother, Mrs. Sylvanus Reed, by Mrs. William Barclay Parsons for the recognition of outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion. Awarded to the student who shows the highest excellence in one of these fields of work. The award is made partly on the basis of an essay to be handed in by April 1. Details regarding the scope of the essay may be obtained from the Department of Religion. Income on \$1,000.

Russian

Alice Levin Sokolik Prize in Russian (1976).

In memory of Alice Levin Sokolik '65. Awarded annually at commencement to the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature. Award of \$50.

Spanish

The John Bornemann Prize in Spanish (1976).

In memory of John Bornemann by his wife. A book or books awarded annually to a student or students for superior performance in the first or second year language courses.

Spanish Prize (1959).

Awarded annually to a Spanish major who, in the opinion of the Department, has done the most distinguished work in Spanish language and literature. Income on \$2,500.

Susan Huntington Vernon Prize. (Seven Colleges).

A prize of about \$25, the annual income of the fund established in 1941 by pupils and friends of Mrs. Vernon, in tribute to her work at the Hispanic Institute, and augmented by her in 1943. The prize is awarded, on recommendation of the Chairman of the Department of Spanish, for the best original essay written in Spanish by a senior whose native language is not Spanish, but who is taking language courses at Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, or Wellesley.

Urban Studies

Suzanne Farkas Urban Affairs Prize (1972).

By Mr. Robin Farkas. A prize of \$500 awarded annually for the best essay in Urban Affairs.

Women's Studies

Bessie Ehrlich Memorial Prize Fund (1980).

In memory of Bessie Ehrlich by her granddaughter Sue Libow '81. Awarded annually to a student who completes an oral history project of her grandmother or of another female relative of a preceding generation, in conjunction with the Women's Studies Program. Income on \$2,500.

XVII. Statistics

	1889	1899	1909	1919	1924	1929	1934	1939	1944	1949	1954	1959	1964	1969	1974	1976	1977	1978	1979	1980
to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
1890	1900	1910	1920	1925	1930	1935	1940	1945	1950	1955	1960	1965	1970	1975	1977	1978	1979	1980	1981	

Undergraduates, Regular

Seniors	...	40	62	87	126	227	181	164	208	260	245	325	355	433	572	517	553	497	595	645	
Juniors	...	40	122	190	259	237	220	191	314	277	340	356	414	480	554	531	551	592	601	585	
Sophomores	...	37	109	193	234	247	226	210	314	272	317	352	391	517	488	511	511	535	560	699	
Freshmen	...	14	54	188	224	271	311	267	246	324	271	304	385	415	485	437	464	535	600	636	543
Unclassified students	...	...	...	...	57	54	103	143	56	17	1	9	8	21	...	2	—	...	...	4
	14	171	481	694	947	1076	997	954	1216	1097	1207	1427	1583	1936	2051	2025	2150	2224	2392	2476	

Special Students:

Matriculated	...	21	24	39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Nonmatriculated	...	30	22	33	28	29	31	21	15	20	28	19	22	23	41	40	48	36	48	
Departmental (1889-1896)	22	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Music Students (1896-1905)	41	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	22	62	54	61	33	28	29	31	21	15	20	28	19	22	33	41	40	48	36	48

Graduate Students: (1890-1900)

Total Registration	36	315	535	755	980	1104	1026	985	1237	1112	1227	1455	1602	1958	2084	2066	2190	2272	2441	2524
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Degrees Conferred:

A.B.	...	39	88	139	198	247	221	206	270	303	258	347	367	437	497	475	422	452	526	533
B.S. (1909-1918)	...	2	5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
A.M. (1898-1900)	...	18	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ph.D. (1899-1900)	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Total Bachelor's Degrees conferred 1893-1979, A.B. 20,063, B.S. 77.

These figures represent registration in the Autumn Term plus students admitted to the Spring Term.

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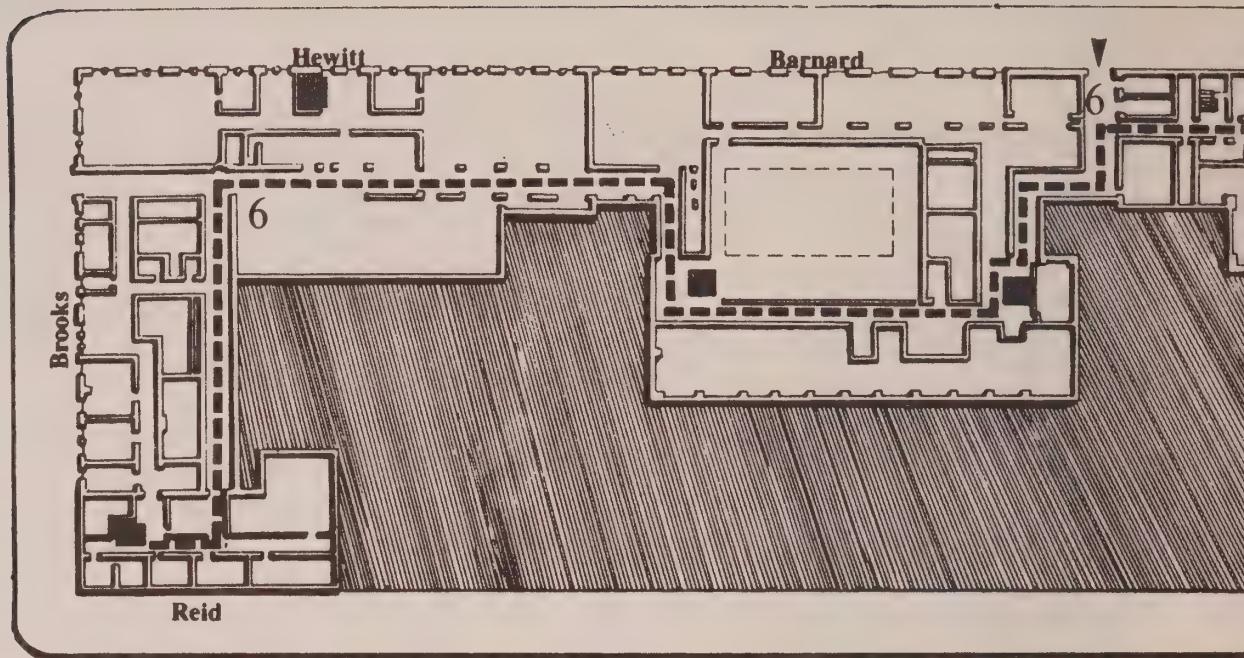
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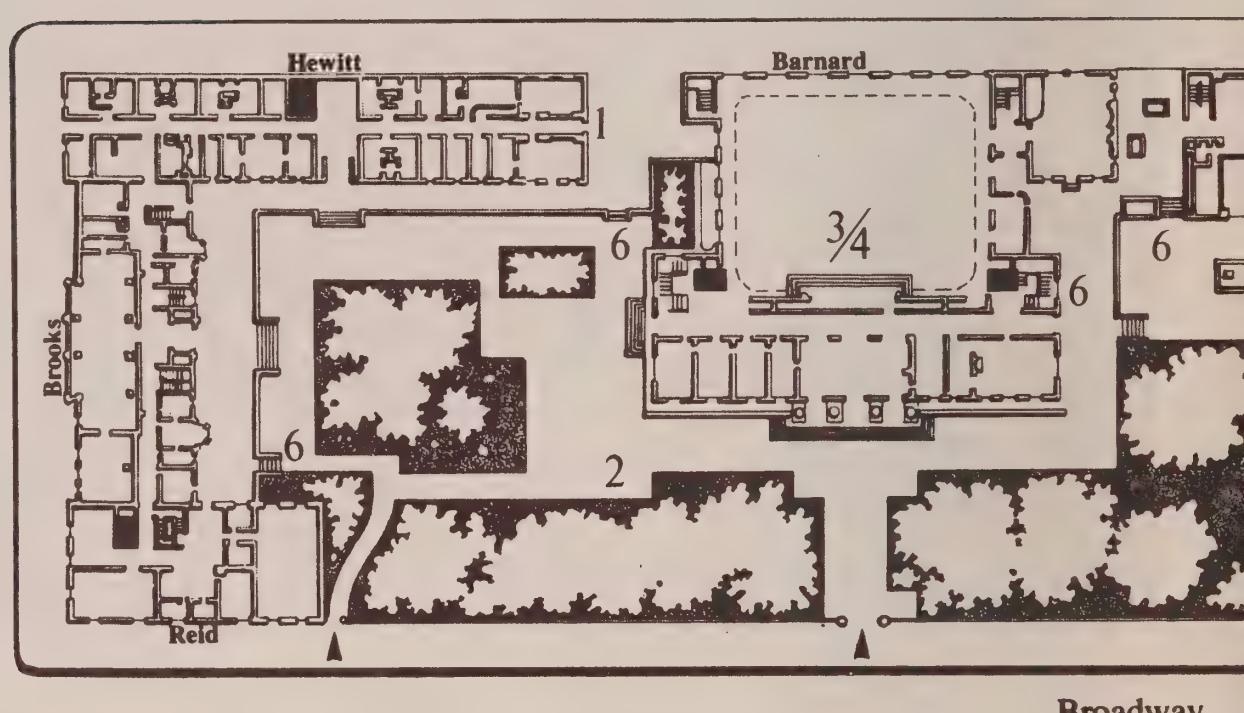


West 116th Street



Broadway

West 116th Street



Broadway

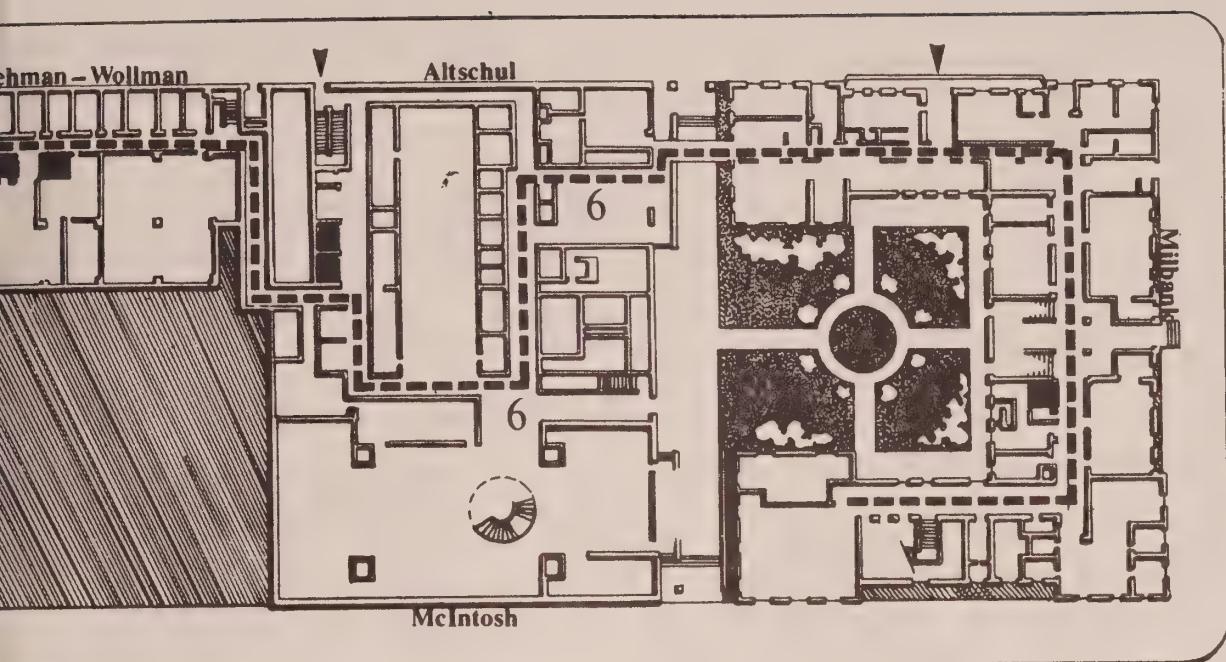
Brooks-Hewitt-Reid, one of the College residences, includes the Deanery,¹ once the home of Barnard's third Dean, Virginia Gildersleeve, and now used by faculty and students for meetings and receptions. A statue commemorating athletic games from 1903-1968² stands on the eastern edge of Altschul Court where the Commencement reception is now held each spring.

In addition to classrooms, gymnasium, and swimming pool, Barnard Hall houses the Women's Center,³ Student Health Service, and Sulzberger Parlor.⁴

Adele Lehman Hall is a modern five-story building containing classrooms and Wollman Library.⁵

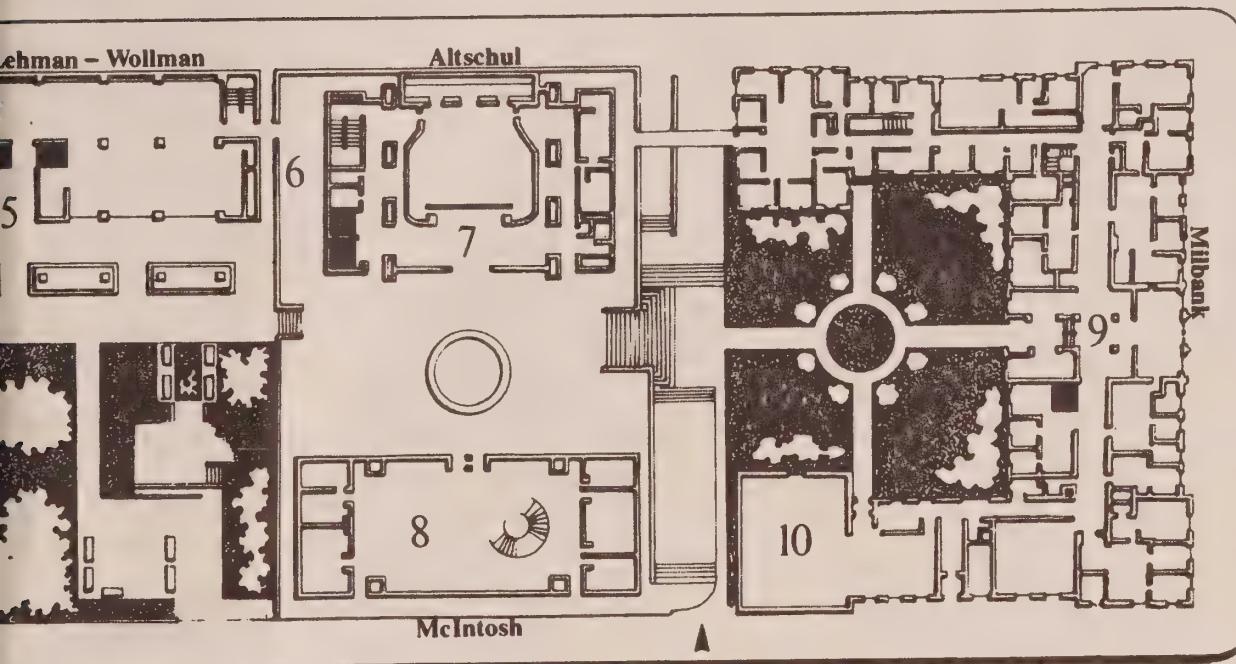
Access to campus buildings is facilitated for disabled students by a system of ramps⁶ and underground tunnels. Consult the Assistant Dean for Disabled Students for complete information on tunnel routes and location of ramps.

Avenue



West 120th Street

Avenue

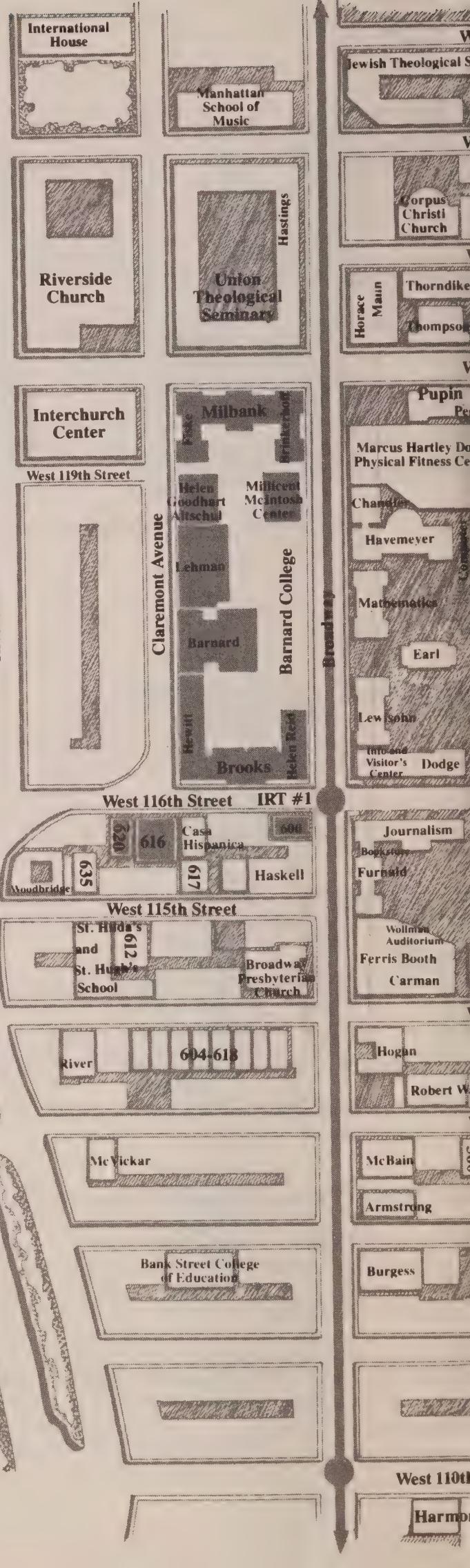
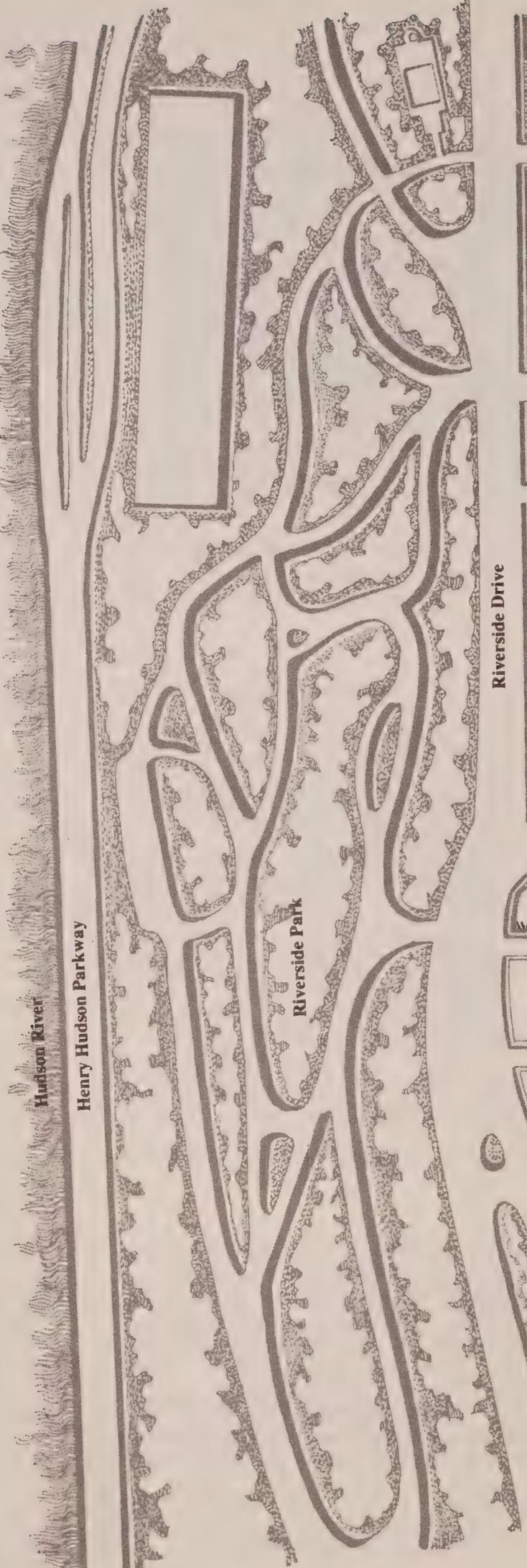


West 120th Street

Helen Goodhart Altschul Hall houses science laboratories and Herbert H. Lehman Auditorium.⁷

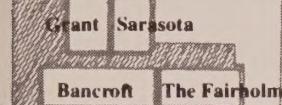
The Millicent McIntosh Center,⁸ named for Barnard's fourth Dean and first president, is home for student government and organizations. A snack bar, student mailboxes, recreational facilities, and the office of nonresident advisers can be found here. The Jean Palmer Room is available for conferences.

Administrative offices, classrooms, piano practice rooms, and the language lab are located in Milbank Hall.⁹ At the Minor Latham Playhouse,¹⁰ students produce and direct plays throughout the academic year. On the roof of Milbank is the greenhouse, a place for a quiet moment during a busy day.

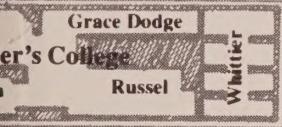


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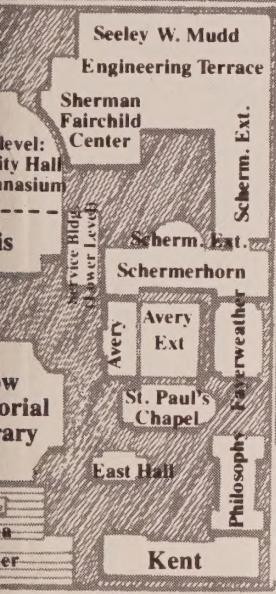
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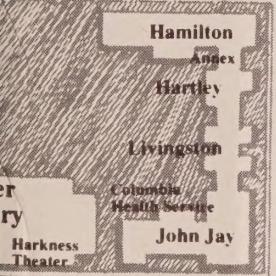
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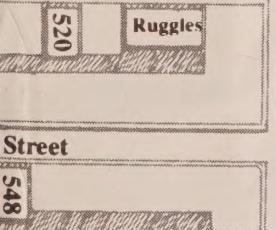
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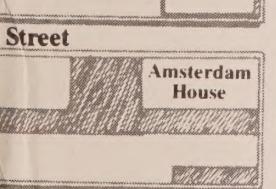
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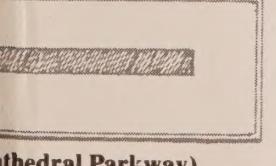
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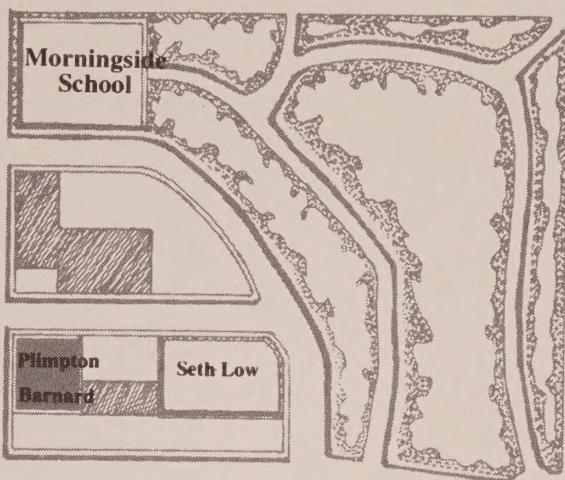


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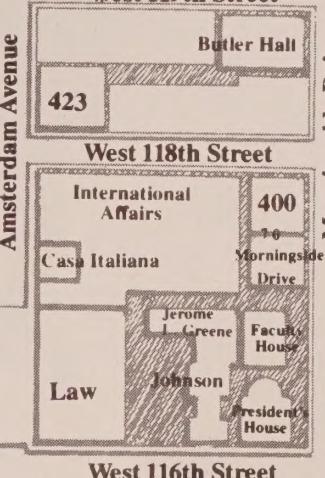


Cathedral Parkway)

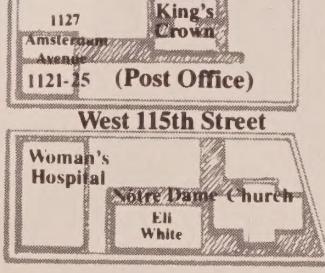
Morningside School



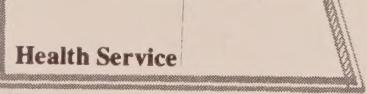
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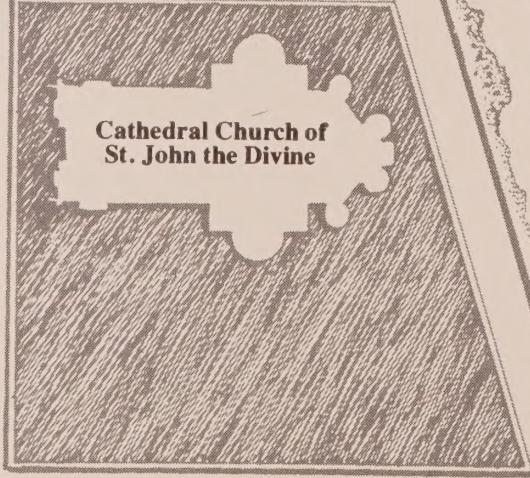
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St. Luke's Hospital



Cathedral Church of St. John the Divine



Columbia Community Athletic Field

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